INOVATO

CONTROL EQUIPMENT

PRODUCT MANUAL

益诺威拓控制设备

产品手册

INOVATO

About us

Ningbo Innovator Control Equipment Co., Ltd. is located in Yuyao City, Zhejiang Province. We are an innovation-oriented manufacture, integrating technological innovation, product research and development, production and sales, and customer service. Our research and development team has 20 years of product development and manufacturing experience in the intelligent irrigation industry. And we are specialized in intelligent irrigation system, pop-up sprinklers, valves, and controllers.

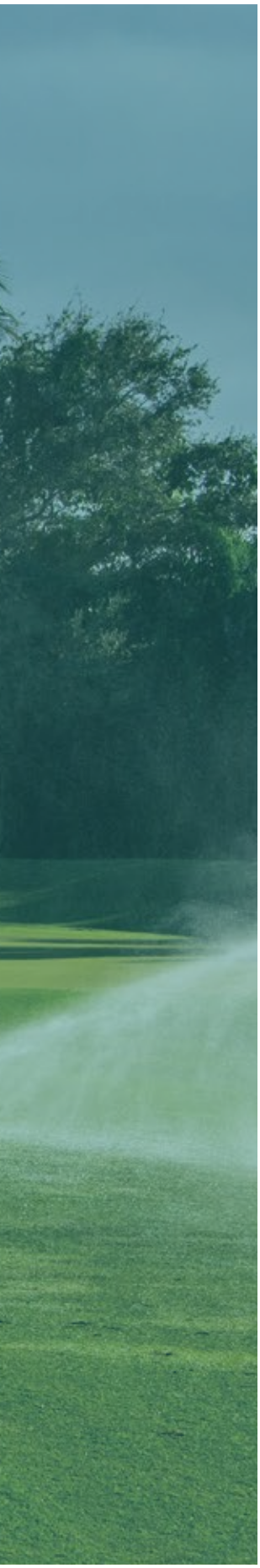
We continues to promote technological innovation and improve our manufacturing level to intelligent manufacturing and lead the industry's needs. We adhere to the production of global professional intelligent control products and the application areas of the products include agricultural irrigation, landscaping, animal husbandry, smart courtyards, and golf courses. And we provide industry-leading intelligent control integrated solutions.

Our Spirit: We have the pioneering and innovative spirit and are eager to progress.

Our Vision: To build a world-class technology enterprise and create a harmonious and beautiful life.

Our Mission: Every family can enjoy a green and healthy life.

Our Values:The product is like the personal character and the quality is life. We will focus on customer satisfaction and create values for our customers.



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地埋系列
POP-UP SPRINKLERS

Available for different pop-up heights. It has a two-piece ratcheting riser, which is reliable and durable. The male-threaded riser is compatible with all INVOTA female-threaded nozzles. It has two versions. One is nozzle preinstalled version, which has a large filter screen for debris resistance. And the other one is plug preinstalled version, which is available without a nozzle or filter screen. All FN nozzles are compatible with this sprinkler.

Applications Comparison

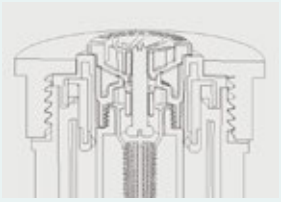
APPLICATIONS	GF	SF
Shrubs	◉	◉
Agriculture		◉
Garden	◉	◉
Courtyard		◉
Municipalities		◉
Golf Course		◉

△ Optional check valve available

Our Advantage

CO-MOLDED WIPER SEAL

Molded with two types of chemical and chlorine-resistant materials, this multi-function wiper seal reduces flow-by, allowing more heads on one zone, and prevent s debris from entering the seal, reducing riser stick-ups.



FLOGUARD TECHNOLOGY

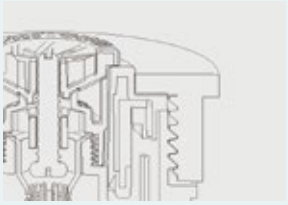
In the event of a missing nozzle, Flo Guard technology reduces the flow of water from the riser to a 1.9L/MIN(3M tall) indicator stream, eliminating water waste and preventing landscape erosion whileprovid-ing a visual indicator for repair.

HEAVY-DUTY SPRING

The industry ’s stronges t spring offers positive retraction under any conditions.

INDUSTRY’S STRONGEST SPRAY BODY

The sprinkler incorporates a heavy-duty ribbed body and durable cap engineered to withstand the harshest environments, including the rigors of foot traffic and the abuses of heavy machinery. In addition, the buttress thread design provides superior strength in cap-to-body gripping capacity, helping the head to withstand high inlet surge pressures.



GF

02”、04”、06”

Applications

It is applied to turfgass, shrubs, garden, etc.

Features

- Small exposed cover for more attractive landscapes.
- Compact shape makes it more economical.
- Pressure-activated wiper seal prevents excessive flow-by and water waste and keeps debris from entering upon retraction.
- Constructed of durable materials including corrosion resistant stainless steel.
- Male threaded riser to accept all INOVATO female nozzles.

Operating Specifications

- Recommended pressure range:1.0~4.8 bar
- Radius:2.5 - 9.1m
- Connection:1/2” female thread

Factory Installed Options

- Drain check valve:10cm,15cm models (up to 2m of elevation)
- Flush plug (large basket filter screen not included)

GF02

overall height:12.7cm
Pop up height:5cm
exprosure diameter:3cm
inlet size:½”female thread

GF04

overall height:18.4cm
pop up height:10cm
exprosure diameter:3cm
inlet size:½”female thread

Detailed Pictures

Operating Picture

GF06

overall height:24.1cm
popup height:15cm
exprosure diameter:3cm
inlet size:½”female thread

SF

02”、03”、04”

Applications

It is applied to turfgass, shrubs, garden, etc.

Features

- Small exposed cover for more attractive landscapes.
- Compact shape makes it more economical.
- Pressure-activated wiper seal prevents excessive flow-by and water waste and keeps debris from entering upon retraction.
- Constructed of durable materials including corrosion resistant stainless steel.
- Male threaded riser to accept all INOVATO female nozzles.

Operating Specifications

- Recommended pressure range:1.0~7.0 bar
- Optimum working pressure: 2.1 bar
- Connection: 1/2”female thread

Factory Installed Options

- Drain check valve: 10cm, 15cm, 30cm models (up to 3m of elevation)
- Reclaimed water ID cap

Detailed picture

Operating picture

SF02

overall height:10cm
Pop up height:5cm
exprosure diameter:5.7cm
inlet size:½”female thread

SF03

overall height:12.5cm
Pop up height:7.5cm
exprosure diameter:5.7cm
inlet size:½”female thread

SF04

overall height:15.5cm
Pop up height:10cm
exprosure diameter:5.7cm
inlet size:½”female thread

SF06

overall height:22.5cm
Pop up height:15cm
exprosure diameter:5.7cm
inlet size:½”female thread

SF12

overall height:41cm
Pop up height:30cm
exprosure diameter:5.7cm
inlet size:½”female thread

FF NOZZLES

4A、6A、8A、10A、12A、15A、17A

Applications

It is applied to turfgass, shrubs, garden, etc.

Features

- Well-defined edges
- Matched precipitation rate of 1.2m to 5.2m
- Easy grip top tp simple adjustment
- Designed with large water droplets to withstand light winds
- Even distribution results in beautiful pattern
- Color-coded for easy field identification
- Adjustable from 0°to 360°

Operating Specifications

- Recommended operating pressure: 2.1 bar

Operating pictures

/ Performance Data FF NOZZLES

	Pressure	4AN Lt.Green 1.2 Radius Adjustable: 0°~360° Trajectory:0°					6AN Sky Blue 1.8 Radius Adjustable:0°~360° Trajectory:0°					8AN Green 2.4 Radius Adjustable:0°~360° Trajectory:0°					10AN Dark Blue 3.0 Radius Adjustable:0°~360° Trajectory:15°				
	bar kPa	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲
45°	1.0 100	0.9	0.02	0.31	187	216	1.5	0.03	0.54	117	136	2.0	0.04	0.62	77	89	2.6	0.04	0.68	49	56
	1.5 150	1.0	0.02	0.39	178	206	1.6	0.04	0.60	108	124	2.2	0.04	0.72	72	83	2.8	0.05	0.80	49	57
	2.1 210	**1.2**	**0.03**	**0.48**	**167**	**193**	**1.8**	**0.04**	**0.65**	**98**	**114**	**2.4**	**0.05**	**0.83**	**67**	**77**	**3.0**	**0.06**	**0.94**	**49**	**56**
	2.5 250	1.3	0.03	0.56	158	183	1.9	0.04	0.70	92	106	2.6	0.05	0.91	63	73	3.2	0.06	1.06	48	56
	3.0 300	1.4	0.04	0.64	149	172	2.1	0.05	0.75	86	99	2.9	0.06	1.01	59	68	3.5	0.07	1.18	47	54
90°	1.0 100	0.9	0.04	0.72	213	246	1.5	0.06	1.08	116	134	2.0	0.07	1.24	77	89	2.6	0.08	1.35	49	56
	1.5 150	1.0	0.05	0.76	182	210	1.6	0.07	1.21	109	126	2.2	0.09	1.44	72	83	2.8	0.10	1.61	49	57
	2.1 210	**1.2**	**0.05**	**0.83**	**139**	**160**	**1.8**	**0.08**	**1.35**	**102**	**118**	**2.4**	**0.10**	**1.65**	**67**	**77**	**3.0**	**0.11**	**1.89**	**49**	**56**
	2.5 250	1.3	0.05	0.91	129	149	1.9	0.09	1.47	97	112	2.6	0.11	1.82	63	73	3.2	0.13	2.11	48	56
	3.0 300	1.4	0.06	0.95	116	134	2.1	0.10	1.61	92	106	2.9	0.12	2.02	59	68	3.5	0.14	2.37	47	54
120°	1.0 100	0.9	0.06	0.97	221	255	1.5	0.08	1.26	102	118	2.0	0.10	1.66	77	89	2.6	0.11	1.80	49	56
	1.5 150	1.0	0.07	1.10	188	217	1.6	0.09	1.43	97	112	2.2	0.11	1.92	72	83	2.8	0.13	2.14	49	57
	2.1 210	**1.2**	**0.07**	**1.25**	**162**	**187**	**1.8**	**0.10**	**1.61**	**91**	**105**	**2.4**	**0.13**	**2.20**	**67**	**77**	**3.0**	**0.15**	**2.52**	**49**	**56**
	2.5 250	1.3	0.08	1.36	146	168	1.9	0.11	1.76	87	100	2.6	0.15	2.43	63	73	3.2	0.17	2.82	48	56
	3.0 300	1.4	0.09	1.49	131	151	2.1	0.12	1.93	82	95	2.9	0.16	2.69	59	68	3.5	0.19	3.16	47	54
180°	1.0 100	0.9	0.07	1.18	178	206	1.5	0.10	1.70	92	106	2.0	0.15	2.49	77	89	2.6	0.16	2.71	49	56
	1.5 150	1.0	0.08	1.38	157	181	1.6	0.12	1.96	88	102	2.2	0.17	2.87	72	83	2.8	0.19	3.21	49	57
	2.1 210	**1.2**	**0.10**	**1.60**	**139**	**160**	**1.8**	**0.13**	**2.24**	**84**	**97**	**2.4**	**0.20**	**3.30**	**67**	**77**	**3.0**	**0.23**	**3.78**	**49**	**56**
	2.5 250	1.3	0.11	1.78	127	146	1.9	0.15	2.47	81	94	2.6	0.22	3.65	63	73	3.2	0.25	4.23	48	56
	3.0 300	1.4	0.12	1.98	115	133	2.1	0.16	2.72	78	90	2.9	0.24	4.03	59	68	3.5	0.28	4.73	47	54
240°	1.0 100	0.9	0.12	1.94	220	254	1.5	0.15	2.44	99	114	2.0	0.20	3.32	77	89	2.6	0.22	3.61	49	56
	1.5 150	1.0	0.13	2.24	192	221	1.6	0.17	2.83	96	111	2.2	0.23	3.83	72	83	2.8	0.26	4.28	49	57
	2.1 210	**1.2**	**0.16**	**2.59**	**168**	**194**	**1.8**	**0.20**	**3.28**	**92**	**107**	**2.4**	**0.26**	**4.40**	**67**	**77**	**3.0**	**0.30**	**5.03**	**49**	**56**
	2.5 250	1.3	0.17	2.86	153	177	1.9	0.22	3.63	89	103	2.6	0.29	4.86	63	73	3.2	0.34	5.64	48	56
	3.0 300	1.4	0.19	3.17	139	160	2.1	0.24	4.03	86	99	2.9	0.32	5.38	59	68	3.5	0.38	6.31	47	54
270°	1.0 100	0.9	0.13	2.09	211	244	1.5	0.18	3.08	111	128	2.0	0.22	3.73	77	89	2.6	0.24	4.06	49	56
	1.5 150	1.0	0.14	2.40	183	211	1.6	0.21	3.52	106	122	2.2	0.26	4.31	72	83	2.8	0.29	4.82	49	57
	2.1 210	**1.2**	**0.16**	**2.75**	**159**	**183**	**1.8**	**0.24**	**4.02**	**101**	**116**	**2.4**	**0.30**	**4.95**	**67**	**77**	**3.0**	**0.34**	**5.66**	**49**	**56**
	2.5 250	1.3	0.18	3.02	144	166	1.9	0.27	4.42	97	112	2.6	0.33	5.47	63	73	3.2	0.38	6.34	48	56
	3.0 300	1.4	0.20	3.33	130	150	2.1	0.29	4.87	92	107	2.9	0.36	6.05	59	68	3.5	0.43	7.10	47	54
360°	1.0 100	0.9	0.14	2.26	171	197	1.5	0.21	3.57	96	111	2.0	0.30	4.97	77	89	2.6	0.32	5.41	49	56
	1.5 150	1.0	0.16	2.60	148	171	1.6	0.24	4.07	92	105	2.2	0.34	5.75	72	83	2.8	0.39	6.43	49	57
	2.1 210	**1.2**	**0.18**	**2.98**	**129**	**149**	**1.8**	**0.28**	**4.62**	**87**	**100**	**2.4**	**0.40**	**6.61**	**67**	**77**	**3.0**	**0.45**	**7.55**	**49**	**56**
	2.5 250	1.3	0.20	3.29	117	135	1.9	0.30	5.06	83	96	2.6	0.44	7.29	63	73	3.2	0.51	8.45	48	56
	3.0 300	1.4	0.22	3.63	106	122	2.1	0.33	5.56	79	92	2.9	0.48	8.07	59	68	3.5	0.57	9.47	47	54

	Pressure	12AN Brown 3.7 Radius Adjustable:0°~360° Trajectory:28°					15AN Black 4.6 Radius Adjustable:0°~360° Trajectory:28°					17AN Gray 5.2 Radius Adjustable:0°~360° Trajectory:28°				
	bar kPa	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲
45°	1.0 100	3.2	0.04	0.73	34	40	4.0	0.08	1.27	38	43	4.6	0.10	1.68	38	43
	1.5 150	3.4	0.06	0.97	40	46	4.3	0.09	1.51	39	45	4.9	0.12	1.94	38	44
	2.1 210	**3.7**	**0.07**	**1.23**	**44**	**51**	**4.6**	**0.11**	**1.79**	**40**	**46**	**5.2**	**0.13**	**2.23**	**39**	**45**
	2.5 250	3.9	0.09	1.44	46	54	4.6	0.12	2.00	40	46	5.5	0.15	2.46	39	45
	3.0 300	4.1	0.10	1.68	48	56	5.2	0.14	2.25	40	46	5.8	0.16	2.72	39	45
90°	1.0 100	3.2	0.09	1.46	34	40	4.0	0.15	2.53	38	43	4.6	0.20	3.36	38	43
	1.5 150	3.4	0.12	1.93	40	46	4.3	0.18	3.03	39	45	4.9	0.23	3.88	38	44
	2.1 210	**3.7**	**0.15**	**2.46**	**44**	**51**	**4.6**	**0.21**	**3.57**	**40**	**46**	**5.2**	**0.27**	**4.45**	**39**	**45**
	2.5 250	3.9	0.17	2.88	46	54	4.6	0.24	4.01	40	46	5.5	0.30	4.92	39	45
	3.0 300	4.1	0.20	3.36	48	56	5.2	0.27	4.50	40	46	5.8	0.33	5.44	39	45
120°	1.0 100	3.2	0.12	1.94	34	40	4.0	0.20	3.38	38	43	4.6	0.27	4.48	38	43
	1.5 150	3.4	0.15	2.58	40	46	4.3	0.24	4.03	39	45	4.9	0.31	5.17	38	44
	2.1 210	**3.7**	**0.20**	**3.28**	**44**	**51**	**4.6**	**0.29**	**4.76**	**40**	**46**	**5.2**	**0.36**	**5.94**	**39**	**45**
	2.5 250	3.9	0.23	3.84	46	54	4.6	0.32	5.34	40	46	5.5	0.39	6.56	39	45
	3.0 300	4.1	0.27	4.48	48	56	5.2	0.36	6.00	40	46	5.8	0.43	7.25	39	45
180°	1.0 100	3.2	0.17	2.91	34	40	4.0	0.30	5.07	38	43	4.6	0.40	6.71	38	43
	1.5 150	3.4	0.23	3.86	40	46	4.3	0.36	6.05	39	45	4.9	0.47	7.75	38	44
	2.1 210	**3.7**	**0.30**	**4.92**	**44**	**51**	**4.6**	**0.43**	**7.14**	**40**	**46**	**5.2**	**0.53**	**8.91**	**39**	**45**
	2.5 250	3.9	0.35	5.76	46	54	4.6	0.48	8.02	40	46	5.5	0.59	9.83	39	45
	3.0 300	4.1	0.40	6.71	48	56	5.2	0.54	9.00	40	46	5.8	0.65	10.87	39	45
240°	1.0 100	3.2	0.23	3.88	34	40	4.0	0.41	6.76	38	43	4.6	0.54	8.95	38	43
	1.5 150	3.4	0.31	5.15	40	46	4.3	0.48	8.07	39	45	4.9	0.62	10.34	38	44
	2.1 210	**3.7**	**0.39**	**6.56**	**44**	**51**	**4.6**	**0.57**	**9.52**	**40**	**46**	**5.2**	**0.71**	**11.88**	**39**	**45**
	2.5 250	3.9	0.46	7.68	46	54	4.6	0.64	10.69	40	46	5.5	0.79	13.11	39	45
	3.0 300	4.1	0.54	8.95	48	56	5.2	0.72	12.00	40	46	5.8	0.87	14.50	39	45
270°	1.0 100	3.2	0.26	4.37	34	40	4.0	0.46	7.60	38	43	4.6	0.60	10.07	38	43
	1.5 150	3.4	0.35	5.80	40	46	4.3	0.54	9.08	39	45	4.9	0.70	11.63	38	44
	2.1 210	**3.7**	**0.44**	**7.38**	**44**	**51**	**4.6**	**0.64**	**10.71**	**40**	**46**	**5.2**	**0.80**	**13.36**	**39**	**45**
	2.5 250	3.9	0.52	8.65	46	54	4.6	0.72	12.03	40	46	5.5	0.89	14.75	39	45
	3.0 300	4.1	0.60	10.07	48	56	5.2	0.81	13.50	40	46	5.8	0.98	16.31	39	45
360°	1.0 100	3.2	0.35	5.83	34	40	4.0	0.61	10.13	38	43	4.6	0.81	13.43	38	43
	1.5 150	3.4	0.46	7.73	40	46	4.3	0.73	12.10	39	45	4.9	0.93	15.51	38	44
	2.1 210	**3.7**	**0.59**	**9.84**	**44**	**51**	**4.6**	**0.86**	**14.28**	**40**	**46**	**5.2**	**1.07**	**17.82**	**39**	**45**
	2.5 250	3.9	0.69	11.53	46	54	4.6	0.96	16.03	40	46	5.5	1.18	19.67	39	45
	3.0 300	4.1	0.81	13.43	48	56	5.2	1.08	18.00	40	46	5.8	1.30	21.75	39	45

Note:: The above date is taken in zero wind conditions.

■ Indicates that the sprinklers are installed in a square. Space based on radius

▲ Indicates that the sprinklers are installed in a triangle. Space ibased on radius

RF NOZZLES

RF

Application

It is applied to turfgass, shrubs, garden, etc.

Features

- True matched precipitation any arc or radius setting
- Radius can be reduced up to 25% on all models
- Color-coded for easy identification
- Removable filter screen prevents large objections from clogging nozzle
- Low precipitation rate
- Wind-resistant multi-stream technology
- Adjustable arc and radius.

VERTICAL VIEW

Opearation Specification

- Recommended working pressure：2.8 bar

Performance Data

RF NOZZLES

- RF LS Dark purple
- RF RS Olive green
- RF SS Mocha brown

		Pressure bar	Pressure kPa	Radius m	Flow m^3/hr	Flow l/m
Left Strip		1.7	170	1.1*4.2	0.04	0.67
		2.0	200	1.2*4.3	0.04	0.72
		2.5	250	1.4*4.5	0.05	0.79
		2.8	**280**	**1.5*4.6**	**0.05**	**0.84**
		3.0	300	1.6*4.7	0.06	0.87
		3.5	350	1.7*4.8	0.06	0.94
		3.8	380	1.8*4.9	0.06	0.99
Right Strip		1.7	170	1.1*4.2	0.04	0.67
		2.0	200	1.2*4.3	0.04	0.72
		2.5	250	1.4*4.5	0.05	0.79
		2.8	**280**	**1.5*4.6**	**0.05**	**0.84**
		3.0	300	1.6*4.7	0.06	0.87
		3.5	350	1.7*4.8	0.06	0.94
		3.8	380	1.8*4.9	0.06	0.99
Right Strip		1.7	170	1.1*8.3	0.08	1.34
		2.0	200	1.2*8.6	0.09	1.43
		2.5	250	1.4*8.9	0.09	1.57
		2.8	**280**	**1.5*9.1**	**0.10**	**1.66**
		3.0	300	1.6*9.3	0.10	1.72
		3.5	350	1.7*9.6	0.11	1.87
		3.8	380	1.8*9.9	0.12	1.96

RF LS
Left Strip
1.5*4.6m

RF RS
Right Strip
1.5*4.6m

RF SS
Side Strip
1.5*9.1m

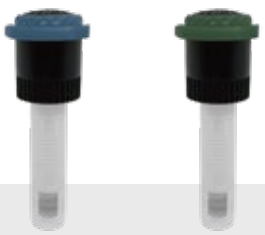
RF strip pattern

Performance Data

RF NOZZLES

- RF Corner Blue
- RF Corner Green

		Pressure bar	Pressure kPa	Radius m	Flow m^3/hr	Flow l/m
45°		1.7	170	--	--	--
		2.0	200	3.5	0.04	0.61
		2.5	250	4.0	0.04	0.68
		2.8	**280**	**4.1**	**0.04**	**0.70**
		3.0	300	4.3	0.04	0.73
		3.5	350	4.4	0.05	0.78
		3.8	380	4.5	0.05	0.81
90°		1.7	170	3.2	0.07	1.15
		2.0	200	3.5	0.08	1.27
		2.5	250	4.0	0.08	1.40
		2.8	**280**	**4.1**	**0.09**	**1.44**
		3.0	300	4.3	0.09	1.57
		3.5	350	4.4	0.10	1.67
		3.8	380	4.5	0.10	1.73
105°		1.7	170	3.2	0.08	1.34
		2.0	200	3.5	0.09	1.48
		2.5	250	4.0	0.10	1.63
		2.8	**280**	**4.1**	**0.10**	**1.70**
		3.0	300	4.3	0.11	1.83
		3.5	350	4.4	0.12	1.94
		3.8	380	4.5	0.12	2.00



RF COR1
2.4 ~ 4.5m

RF COR2
2.4 ~ 4.5m

Corner pattern

Note:The above data is taken in zero wind conditions.

■ Indicates that the sprinklers are installed in a square.Space based on radius

▲ Indicates that the sprinklers are installed in a triangle.Space based on radius

/ Performance Data

RF NOZZLES

● RF101 Red 90°~210°　● RF102 Sky Blue 210°~270°　● RF103 Lt.Green 360°

● RF 201 Black 90°~210°　● RF 202 Green 210°~270°　● RF 203 Orange 360°

● RF 301 Blue 90°~210°　● RF 302 Yellow red 210°~270°　● RF 303 Gray 360°

● RF 305 Brown 90°~210°

	Pressure		RF101 Red 90°~210°					RF102 Sky Blue 210°~270°					RF103 Lt.Green 360°				
	bar	kPa	Radius m	Flow m³/hr	Flow l/m	Preciip mm/h ■	Preciip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Preciip mm/h ■	Preciip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Preciip mm/h ■	Preciip mm/h ▲
90°	1.7	170	--	--	--	--	--	5.2	0.08	1.29	12	13	7.6	0.16	2.69	11	13
	2.0	200	3.7	0.04	0.64	11	13	5.5	0.09	1.44	12	13	8.2	0.17	2.88	10	12
	2.5	250	4.0	0.04	0.72	11	13	5.8	0.09	1.52	11	13	8.5	0.19	3.11	10	12
	2.8	**280**	**4.1**	**0.05**	**0.80**	**11**	**13**	**6.1**	**0.10**	**1.63**	**11**	**12**	**9.1**	**0.20**	**3.26**	**10**	**11**
	3.0	300	4.3	0.05	0.87	11	13	6.4	0.11	1.74	10	12	9.1	0.21	3.41	10	12
	3.5	350	4.5	0.06	0.95	11	13	6.4	0.11	1.78	11	12	9.1	0.22	3.60	11	12
	3.8	380	4.5	0.06	1.02	12	14	6.4	0.11	1.82	11	12	9.1	0.23	3.83	11	13
180°	1.7	170	--	--	--	--	--	4.9	0.14	2.27	11	13	7.6	0.33	5.46	11	13
	2.0	200	3.7	0.08	1.29	11	13	5.2	0.15	2.43	11	13	8.2	0.36	5.99	11	12
	2.5	250	4.0	0.09	1.44	11	13	5.5	0.16	2.69	11	12	8.5	0.39	6.44	11	12
	2.8	**280**	**4.1**	**0.10**	**1.59**	**11**	**13**	**5.8**	**0.18**	**2.92**	**11**	**12**	**9.1**	**0.42**	**6.90**	**10**	**12**
	3.0	300	4.3	0.10	1.67	11	13	6.1	0.20	3.22	11	12	9.1	0.44	7.31	11	12
	3.5	350	4.4	0.12	1.90	11	13	6.4	0.21	3.45	10	12	9.1	0.47	7.73	11	13
	3.8	380	4.5	0.12	1.93	12	13	6.4	0.22	3.60	11	12	9.1	0.49	8.07	12	14
210°	1.7	170	--	--	--	--	--	4.9	0.17	2.73	12	14	7.6	0.39	6.37	11	13
	2.0	200	3.7	0.09	1.52	12	13	5.2	0.17	2.84	11	13	8.2	0.42	6.97	11	12
	2.5	250	4.0	0.10	1.71	11	13	5.5	0.19	3.07	11	12	8.5	0.46	7.54	11	13
	2.8	**280**	**4.1**	**0.11**	**1.86**	**11**	**13**	**5.8**	**0.20**	**3.26**	**10**	**12**	**9.1**	**0.49**	**8.03**	**10**	**12**
	3.0	300	4.3	0.12	1.93	11	13	6.1	0.21	3.45	10	11	9.1	0.52	8.53	11	12
	3.5	350	4.4	0.13	2.16	11	13	6.4	0.23	3.71	9	11	9.1	0.55	8.98	11	13
	3.8	380	4.5	0.14	2.24	11	13	6.4	0.23	3.83	10	11	9.1	0.57	9.44	12	14
270°	1.7	170	--	--	--	--	--	4.9	0.20	3.30	11	13	7.6	0.50	8.30	12	13
	2.0	200	3.7	0.11	1.82	11	12	5.2	0.22	3.60	11	12	8.2	0.55	8.98	11	12
	2.5	250	4.0	0.12	2.01	10	12	5.5	0.24	3.90	10	12	8.5	0.59	9.66	11	12
	2.8	**280**	**4.1**	**0.14**	**2.39**	**11**	**13**	**5.8**	**0.25**	**4.17**	**10**	**12**	**9.1**	**0.63**	**10.35**	**10**	**12**
	3.0	300	4.3	0.15	2.54	11	13	6.1	0.27	4.43	10	11	9.1	0.66	10.95	11	12
	3.5	350	4.4	0.17	2.73	11	13	6.4	0.28	4.66	9	11	9.1	0.70	11.60	11	13
	3.8	380	4.5	0.17	2.84	11	13	6.4	0.30	4.93	10	11	9.1	0.74	12.20	12	14
360°	1.7	170	--	--	--	--	--	4.9	0.28	4.55	11	13	7.6	0.66	10.92	11	13
	2.0	200	3.5	0.16	2.62	12	13	5.2	0.29	4.85	11	13	8.2	0.72	11.94	11	12
	2.5	250	4.0	0.18	2.92	11	13	5.5	0.32	5.19	10	12	8.5	0.78	12.89	11	12
	2.8	**280**	**4.1**	**0.19**	**3.18**	**11**	**13**	**5.8**	**0.34**	**5.61**	**10**	**12**	**9.1**	**0.84**	**13.80**	**10**	**12**
	3.0	300	4.3	0.20	3.34	11	13	6.1	0.36	5.95	10	11	9.1	0.89	14.63	11	12
	3.5	350	4.4	0.23	3.71	11	13	6.4	0.39	6.37	9	11	9.1	0.94	15.43	11	13
	3.8	380	4.5	0.23	3.83	11	13	6.4	0.40	6.59	10	11	9.1	0.98	16.18	12	14

	Pressure		RF 301 Blue 90°~210°					RF 302 Yellow red 210°~270°					RF 303 Gray 360°				
	bar	kPa	Radius m	Flow m³/hr	Flow l/m	Preciip mm/h ■	Preciip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Preciip mm/h ■	Preciip mm/h ▲	Radius m	Flow m³/hr	Flow l/m	Preciip mm/h ■	Preciip mm/h ▲
90°	1.7	170	7.6	0.16	2.69	11	13	10.1	0.24	3.94	9	11					
	2.0	200	8.2	0.17	2.88	10	12	10.4	0.26	4.28	10	11					
	2.5	250	8.5	0.19	3.11	10	12	10.4	0.28	4.58	10	12					
	2.8	**280**	**9.1**	**0.20**	**3.26**	**10**	**11**	**10.7**	**0.29**	**4.84**	**10**	**12**					
	3.0	300	9.1	0.21	3.41	10	12	10.7	0.31	5.22	11	13					
	3.5	350	9.1	0.22	3.60	11	12	10.7	0.33	5.41	11	13					
	3.8	380	9.1	0.23	3.83	11	13	10.7	0.34	5.68	12	14					
180°	1.7	170	7.6	0.33	5.46	11	13	10.1	0.50	8.36	10	11					
	2.0	200	8.2	0.36	5.99	11	12	10.4	0.51	8.48	9	11					
	2.5	250	8.5	0.39	6.44	11	12	10.4	0.60	10.03	11	13					
	2.8	**280**	**9.1**	**0.42**	**6.90**	**10**	**12**	**10.7**	**0.65**	**10.83**	**11**	**13**					
	3.0	300	9.1	0.44	7.31	11	12	10.7	0.70	11.73	12	14					
	3.5	350	9.1	0.47	7.73	11	13	10.7	0.73	12.15	13	15					
	3.8	380	9.1	0.49	8.07	12	14	10.7	0.75	12.41	13	15					
210°	1.7	170	7.6	0.39	6.37	11	13	10.1	0.59	9.80	10	12					
	2.0	200	8.2	0.42	6.97	11	12	10.4	0.65	10.75	10	12					
	2.5	250	8.5	0.46	7.54	11	13	10.4	0.70	11.66	11	13					
	2.8	**280**	**9.1**	**0.49**	**8.03**	**10**	**12**	**10.7**	**0.75**	**12.45**	**11**	**13**					
	3.0	300	9.1	0.52	8.53	11	12	10.7	0.80	13.40	12	14					
	3.5	350	9.1	0.55	8.98	11	13	10.7	0.85	14.23	13	15					
	3.8	380	9.1	0.57	9.44	12	14	10.7	0.90	14.91	13	16					
270°	1.7	170	7.6	0.50	8.30	12	13										
	2.0	200	8.2	0.55	8.98	11	12										
	2.5	250	8.5	0.59	9.66	11	12										
	2.8	**280**	**9.1**	**0.63**	**10.35**	**10**	**12**										
	3.0	300	9.1	0.66	10.95	11	12										
	3.5	350	9.1	0.70	11.60	11	13										
	3.8	380	9.1	0.74	12.20	12	14										
360°	1.7	170	7.6	0.66	10.92	11	13										
	2.0	200	8.2	0.72	11.94	11	12										
	2.5	250	8.5	0.78	12.89	11	12										
	2.8	**280**	**9.1**	**0.84**	**13.80**	**10**	**12**										
	3.0	300	9.1	0.89	14.63	11	12										
	3.5	350	9.1	0.94	15.43	11	13										
	3.8	380	9.1	0.98	16.18	12	14										

RF101 90°~210° | RF102 210°~270° | RF103 360° | RF201 90°~210° | RF202 210°~270° | RF203 360° | RF301 90°~210° | RF302 210°~270° | RF303 360° | RF305 90°~210°

RF1000:2.5~4.5m | RF2000:4~6.4m | RF3000:6.7~9.1m | RF3500: 9.1~10.7m

RF NOZZLES

HIGH EFFICIENCY NOZZLE WITH SHORT RADIUS

Application

It is applied to turfgass, shrubs, garden, etc.

Features

- Radius: 1.8~3.5m
- Color-coded for easy identification.
- Removable filter screen prevents large objections from clogging nozzle
- Low precipitation rate increasing irrigation efficiency
- Wind-resistant multi-stream technology
- Adjustable arc and radius.

Operating Data

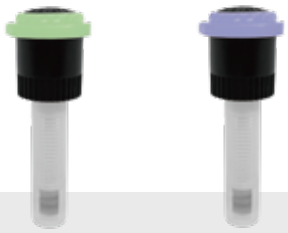
- Recommended working pressure:2.8 bar
- Recommend to use pure water

Performance Data

RF NOZZLES

- RF 61201 Green 90°~210°
- RF 61202 Purple 360°

	Presure		maximum radius					minimum radius		
			Radius	Flow	Flow	Precip mm/h		Radius	Flow	Flow
	bar	kPa	m	m³/hr	l/m	■	▲	m	m³/h	l/m
90°	2.1	210	2.6	0.04	0.64	23	27	1.8	0.03	0.49
	2.5	250	2.6	0.05	0.78	23	26	2.1	0.03	0.55
	2.8	**280**	**3.1**	**0.05**	**0.87**	**21**	**24**	**2.4**	**0.04**	**0.61**
	3.0	300	3.4	0.06	0.95	20	23	2.4	0.04	0.68
	3.5	350	3.5	0.06	1.02	20	23	2.7	0.04	0.72
	3.8	380	3.5	0.06	1.06	20	23	3.0	0.05	0.76
180°	2.1	210	2.6	0.07	1.25	22	26	1.8	0.06	0.98
	2.5	250	2.8	0.09	1.44	22	25	2.1	0.07	1.10
	2.8	**280**	**3.0**	**0.10**	**1.59**	**21**	**24**	**2.4**	**0.07**	**1.21**
	3.0	300	3.3	0.10	1.74	19	22	2.4	0.08	1.36
	3.5	350	3.4	0.11	1.82	19	22	2.7	0.09	1.44
	3.8	380	3.5	0.11	1.89	18	21	3.0	0.09	1.51
210°	2.1	210	2.6	0.09	1.44	22	26	1.8	0.07	1.15
	2.5	250	2.8	0.10	1.67	22	25	2.1	0.08	1.28
	2.8	**280**	**3.0**	**0.11**	**1.85**	**21**	**24**	**2.4**	**0.08**	**1.41**
	3.0	300	3.2	0.12	2.01	20	23	2.4	0.10	1.59
	3.5	350	3.4	0.13	2.12	19	22	2.7	0.10	1.68
	3.8	380	3.5	0.13	2.20	18	21	3.0	0.11	1.77
360°	2.1	210	2.6	0.15	2.50	23	26	1.8	0.11	1.78
	2.5	250	2.8	0.16	2.69	20	23	2.1	0.12	1.97
	2.8	**280**	**3.0**	**0.18**	**2.95**	**20**	**23**	**2.4**	**0.13**	**2.12**
	3.0	300	3.1	0.19	3.22	20	23	2.4	0.13	2.23
	3.5	350	3.3	0.20	3.33	19	21	2.7	0.14	2.38
	3.8	380	3.5	0.22	3.71	18	21	3.0	0.16	2.65



RF61201
90°~210°

RF61202
360°

RF612 Radius:1.8~3.5m

Performance Data

RF NOZZLES

- RF 81601 Pink 90°~210°
- RF 81602 Orange 210°~270°
- RF 81603 Yellow 360°

	Presure		Radius	Flow	Flow	Precip mm/h	
	bar	kPa	m	m³/hr	l/m	■	▲
90°	2.1	210	4.3	0.10	1.59	21	24
	2.5	250	4.5	0.10	1.74	21	24
	2.8	**280**	**4.6**	**0.11**	**1.85**	**21**	**24**
	3.1	310	4.8	0.12	1.97	21	24
	3.5	350	4.9	0.12	2.08	21	24
	3.8	380	4.9	0.13	2.20	22	25
180°	2.1	210	4.0	0.17	2.84	21	25
	2.5	250	4.3	0.20	3.26	21	24
	2.8	**280**	**4.5**	**0.21**	**3.52**	**21**	**24**
	3.1	310	4.6	0.22	3.63	21	24
	3.5	350	4.8	0.24	4.01	21	24
	3.8	380	4.9	0.25	4.20	21	24
210°	2.1	210	4.0	0.20	3.33	21	25
	2.5	250	4.3	0.22	3.63	20	23
	2.8	**280**	**4.5**	**0.25**	**4.16**	**21**	**24**
	3.1	310	4.6	0.26	4.39	21	25
	3.5	350	4.8	0.28	4.69	21	24
	3.8	380	4.9	0.30	4.92	21	24
270°	2.1	210	4.0	0.26	4.31	22	25
	2.5	250	4.3	0.28	4.69	20	23
	2.8	**280**	**4.5**	**0.32**	**5.30**	**21**	**24**
	3.1	310	4.6	0.33	5.56	21	24
	3.5	350	4.8	0.35	5.83	20	23
	3.8	380	4.9	0.37	6.09	20	23
360°	2.1	210	4.0	0.35	5.75	22	24
	2.5	250	4.3	0.39	6.43	21	24
	2.8	**280**	**4.5**	**0.42**	**7.08**	**21**	**24**
	3.1	310	4.6	0.45	7.57	21	25
	3.5	350	4.8	0.48	8.06	21	24
	3.8	380	4.9	0.51	8.55	21	25

RF81601
90°~210°

RF81602
210°~270°

RF81603
360°

RF816 Radius:2.5~4.9m

HF01

04”

Application

It is applied to turfgass, shrubs, garden, etc.

Features

- Models：10cm
- Arc setting：40°~360°
- Nozzle choice：8
- Nozzle range：0.5~4.0 blue
- Factory installed rubber cover
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Warranty：2 years

Operating Specification

- Radius：4.3~10.7m
- Flow：0.08~1.0m³/hr;1.4~16.7l/min
- Recommended working pressure：1.7~3.8bar; 170~380kPa
- Operating working pressure：1.4~6.9bar; 140~690kPa

Top View

Headed and slotted set screw

Use a slotted screwdriver for easier and simpler adjustment as need.

Appearance design

Durable appearance design

Check Valve (CV)

When the system is turned off, it prevents water overflow. Save water, reduce risk, and extend system life.

Appearance design

Durable appearance design

Operating Specification

- Inlet size:1/2”female
- Precipitation rate:15mm/hr approx

HF01-04

Overall height:18cm
Exposed diameter:3cm
Inlet size:1/2”female

/ Performance Data

HF01 standard blue nozzle

	Pressure bar	Pressure kPa	Radius m	Flow m^3/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲
0.50 Blue Haze	1.7	170	4.3	0.08	1.4	9	11
	2.0	200	4.3	0.09	1.6	10	12
	2.5	250	4.6	0.11	1.8	10	12
	3.0	300	4.6	0.12	2.0	12	13
	3.5	350	4.9	0.13	2.2	11	13
	3.8	380	4.9	0.14	2.3	12	14
0.75 Blue Haze	1.7	170	4.3	0.13	2.2	14	17
	2.0	200	4.6	0.14	2.4	14	16
	2.5	250	4.9	0.16	2.7	13	15
	3.0	300	5.2	0.18	3.0	13	15
	3.5	350	5.2	0.19	3.2	14	17
	3.8	380	5.5	0.20	3.4	13	15
1.0 Blue Haze	1.7	170	5.2	0.18	3.0	13	15
	2.0	200	5.5	0.19	3.2	13	15
	2.5	250	5.5	0.21	3.5	14	16
	3.0	300	5.8	0.23	3.8	14	16
	3.5	350	5.8	0.24	4.1	15	17
	3.8	380	6.1	0.25	4.2	14	16
1.5 Blue Haze	1.7	170	6.1	0.27	4.5	15	17
	2.0	200	6.4	0.29	4.8	14	16
	2.5	250	6.4	0.32	5.4	16	18
	3.0	300	6.7	0.36	6.0	16	18
	3.5	350	6.7	0.39	6.4	17	20
	3.8	380	7.0	0.40	6.7	16	19
2.0 Blue Haze	1.7	170	7.0	0.34	5.6	14	16
	2.0	200	7.3	0.37	6.2	14	16
	2.5	250	7.3	0.42	7.1	16	18
	3.0	300	7.6	0.48	8.0	17	19
	3.5	350	7.6	0.53	8.8	18	21
	3.8	380	7.9	0.56	9.3	18	20
2.5 Blue Haze	1.7	170	7.9	0.46	7.6	15	17
	2.0	200	8.2	0.49	8.1	14	17
	2.5	250	8.2	0.54	9.0	16	18
	3.0	300	8.5	0.59	9.8	16	19
	3.5	350	8.5	0.63	10.5	17	20
	3.8	380	8.8	0.65	10.9	17	19
3.0 Blue Haze	1.7	170	8.8	0.51	8.5	13	15
	2.0	200	9.1	0.56	9.3	13	15
	2.5	250	9.1	0.64	10.6	15	18
	3.0	300	9.4	0.72	12.0	16	19
	3.5	350	9.4	0.78	13.1	18	20
	3.8	380	9.8	0.82	13.7	17	20
4.0 Blue Haze	1.7	170	9.8	0.80	13.3	17	19
	2.0	200	10.1	0.83	13.8	16	19
	2.5	250	10.1	0.89	14.8	18	20
	3.0	300	10.4	0.94	15.7	17	20
	3.5	350	10.4	0.98	16.3	18	21
	3.8	380	10.7	1.00	16.7	18	20

Note:

All precipitation rates calculated for 180° operation.

For the precipitation rate for a 360° sprinkler,divide by 2.

Models	Standard	Options
HF01-04=10cm pop-up	Adjustable arc, 8 standard nozzles 4 low angle nozzles	(blank)=nil

Examples:

HF-01-04=10cm pop-up, adjustable arc

HF02

04”、06”、12”

Application

It is applied to turfgass, shrubs, garden, etc.

Features

- Models：10cm,15cm,30cm
- Arc setting：50°~360°
- Factory installed rubber cover
- Through-the-top arc adjustment
- Quick check arc mechanism
- Water lubricated gear-drive
- Nozzle choice：blue、grey
- Nozzle range：1.5~8.0 blue，2.0~4.5 low angle blue
- Warranty：5 years

Operating Specification

- Radius：4.9~14.0m
- Flow：0.07~3.23m³/hr;1.2~53.8l/min
- Recommended working pressure：1.7~4.5bar; 170~450kPa
- Operating working pressure：1.4~7bar; 140~700kPa

Top View

Headed and slotted set screw

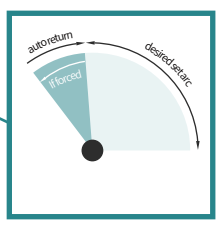
Use a slotted screwdriver for easier and simpler adjustment as need.

pressure regulator

It can lower water pressure to eliminate misting and ensure the efficiency of the nozzle operation.

Appearance design

Durable appearance design



Automatic arc return

This ensures vandal protection in any environment

Operating Specification

- Inlet size:3/4”female
- Precipitation rate:10mm/hr approx
- Trajectory:Standard = 25° Low angle= 13°

HF02-04

Overall height:21cm
Exposed diameter:4.5cm
Inlet size:3/4”female

HF02-06

Overall height:25cm
Exposed diameter:4.5cm
Inlet size:3/4”female

HF02-12

Overall height:44cm
Exposed diameter:4.5cm
Inlet size:3/4”female

Models	Standard	Options	Optional nozzles
HF02-04=10cm pop-up HF02-06=15cm pop-up HF02-12=30cm pop-up	Adjustable arc, 8 standard nozzles 4 low angle nozzles	(blank)=nil	1.5~4.0=factory installed nozzle number Blue 1.5~8.0 Blue low angle2.0~4.5

Examples:
HF-02-04=10cm pop-up, adjustable arc
HF-02-06=15cm pop-up, adjustable arc
HF-02-12=30cm pop-up, adjustable arc

/ Performance Data

HF02 standard blue nozzle

	Pressure bar	Pressure kPa	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲
1.5 Blue Haze	1.7	170	8.8	0.27	4.5	7	8
	2.0	200	9.1	0.29	4.8	7	8
	2.5	250	9.4	0.32	5.4	7	8
	3.0	300	9.8	0.35	5.9	7	9
	3.5	350	9.8	0.38	6.4	8	9
	4.0	400	9.8	0.41	6.8	9	10
	4.5	450	9.4	0.43	7.8	10	11
2.0 Blue Haze	1.7	170	10.1	0.32	5.4	6	7
	2.0	200	10.1	0.35	5.8	7	8
	2.5	250	10.1	0.39	6.5	8	9
	3.0	300	10.4	0.43	7.2	8	9
	3.5	350	10.4	0.47	7.8	9	10
	4.0	400	10.4	0.50	8.3	9	11
	4.5	450	10.4	0.53	8.8	10	11
2.5 Blue Haze	1.7	170	10.1	0.39	6.6	8	9
	2.0	200	10.4	0.43	7.1	8	9
	2.5	250	10.7	0.48	8.0	8	10
	3.0	300	10.7	0.54	8.9	9	11
	3.5	350	10.7	0.58	9.7	10	12
	4.0	400	10.7	0.62	10.4	11	13
	4.5	450	10.7	0.66	11.1	12	13
3.0 Blue Haze	1.7	170	10.7	0.50	8.4	9	10
	2.0	200	10.7	0.54	9.1	10	11
	2.5	250	11.0	0.61	10.2	10	12
	3.0	300	11.6	0.68	11.4	10	12
	3.5	350	11.9	0.74	12.3	10	12
	4.0	400	11.9	0.79	13.2	11	13
	4.5	450	11.9	0.84	14.0	12	14
4.0 Blue Haze	1.7	170	11.3	0.68	11.3	11	12
	2.0	200	11.6	0.73	12.2	11	13
	2.5	250	11.9	0.81	13.6	12	13
	3.0	300	12.2	0.90	15.0	12	14
	3.5	350	12.2	0.97	16.2	13	15
	4.0	400	12.5	1.04	17.3	13	15
	4.5	450	12.5	1.10	18.3	14	16
5.0 Blue Haze	1.7	170	11.3	0.84	14.0	13	15
	2.0	200	11.6	0.91	15.2	14	16
	2.5	250	11.9	1.02	17.1	15	17
	3.0	300	12.8	1.14	19.0	14	16
	3.5	350	12.8	1.24	20.6	15	17
	4.0	400	12.8	1.32	22.1	16	19
	4.5	450	12.8	1.41	23.4	17	20
6.0 Blue Haze	1.7	170	11.6	1.01	16.8	15	17
	2.0	200	11.9	1.09	18.2	15	18
	2.5	250	12.2	1.22	20.4	16	19
	3.0	300	13.1	1.36	22.7	16	18
	3.5	350	13.1	1.47	24.5	17	20
	4.0	400	13.4	1.57	26.2	18	20
	4.5	450	13.4	1.67	27.9	19	21
8.0 Blue Haze	1.7	170	11.3	1.35	22.5	21	25
	2.0	200	11.9	1.46	24.3	21	24
	2.5	250	12.5	1.63	27.2	21	24
	3.0	300	13.4	1.81	30.2	20	23
	3.5	350	13.7	1.95	32.6	21	24
	4.0	400	14.0	2.09	34.8	21	25
	4.5	450	14.0	2.22	36.9	23	26

/ Performance Data

HF02 low angle blue nozzle

	Pressure bar	Pressure kPa	Radius m	Flow m³/hr	Flow l/m	Precip mm/h ■	Precip mm/h ▲
2.0 Blue Haze	1.7	170	7.3	0.33	5.6	12	14
	2.0	200	7.6	0.36	6.0	12	14
	2.5	250	7.9	0.40	6.7	13	15
	3.0	300	8.2	0.45	7.4	13	15
	3.5	350	8.5	0.48	8.0	13	15
	4.0	400	8.8	0.52	8.6	13	15
	4.5	450	9.1	0.55	9.1	13	15
2.5 Blue Haze	1.7	170	7.9	0.44	7.3	14	16
	2.0	200	8.2	0.47	7.9	14	16
	2.5	250	8.8	0.53	8.8	14	16
	3.0	300	9.4	0.59	9.8	13	15
	3.5	350	10.1	0.64	10.6	13	15
	4.0	400	10.4	0.68	11.3	13	15
	4.5	450	10.7	0.72	12.0	13	15
3.5 Blue Haze	1.7	170	8.5	0.58	9.7	16	18
	2.0	200	8.8	0.62	10.3	16	18
	2.5	250	9.1	0.68	11.4	16	19
	3.0	300	10.1	0.75	12.5	15	17
	3.5	350	10.7	0.80	13.3	14	16
	4.0	400	11.0	0.85	14.1	14	16
	4.5	450	11.3	0.89	14.8	14	16
4.5 Blue Haze	1.7	170	8.2	0.71	11.8	21	24
	2.0	200	8.8	0.76	12.7	19	23
	2.5	250	9.1	0.84	14.1	20	23
	3.0	300	10.1	0.93	15.5	18	21
	3.5	350	10.7	1.00	16.6	18	20
	4.0	400	11.0	1.06	17.6	18	20
	4.5	450	11.3	1.12	18.6	18	20

电磁阀系列
SOLENOID VALVE

The outer flow channel design and 3-way water-proof coil makes the corresponding speed of solenoid valve faster.

The outer flow channel of the solenoid is increased and the anti blocking ability is stronger.

The solenoid has low energy consumption and can realize long-distance control.

The solenoid has a built-in three-way flow channel base and can be equipped with a two position three-way control valve

The solenoid is equipped with a manual control knob, which has open, close, and automatic three modes.

Split structure design, built-in diaphragm, solenoid separated from overflow channel, long service life.

Y100 series Solenoid Valve

1.5 inch

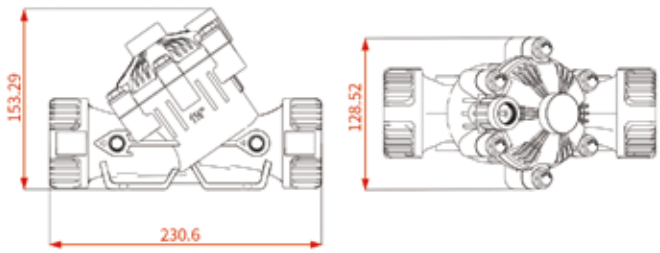
Type

Size	1-½-inch , DN40
Inlet Size	Female Thread , NPT/BSPT
Material	Nylon PA66

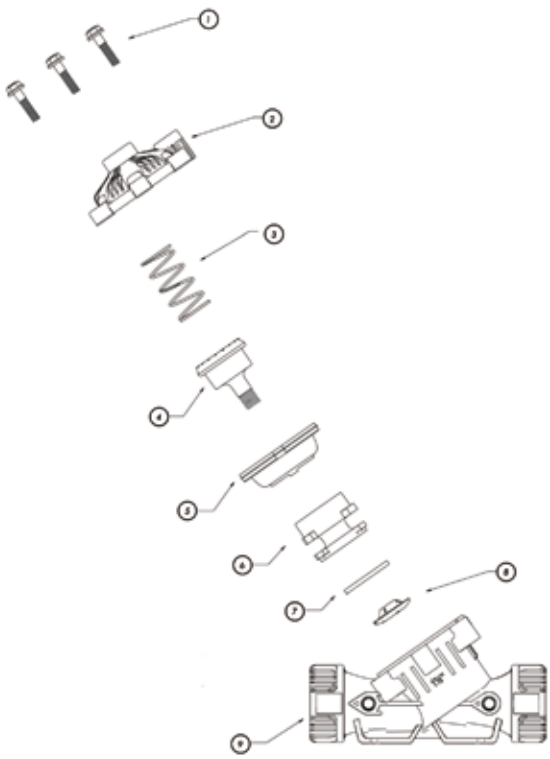
Optimal Performance

Max. Flow	m³/h	21
	gal/min(US)	92
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



Spare Parts

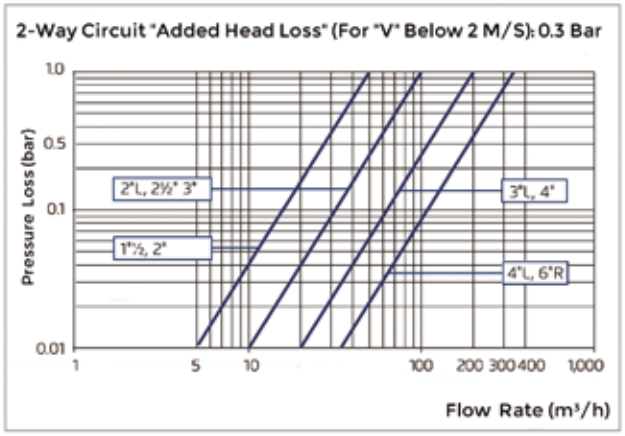


Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss

Flow Chart



#	Accessories	Material
1	Bolt	SUS304
2	Bonnet	Nylon PA66
3	Spring	SUS304
4	Diaphragm Support	Nylon PA66
5	Diaphragm	NR
6	Diaphragm Retainer	Nylon PA66
7	Plug Seal	NR
8	Support Nut	Nylon PA66
9	Valve Body	Nylon PA66

Y100 series Solenoid Valve

2 inch

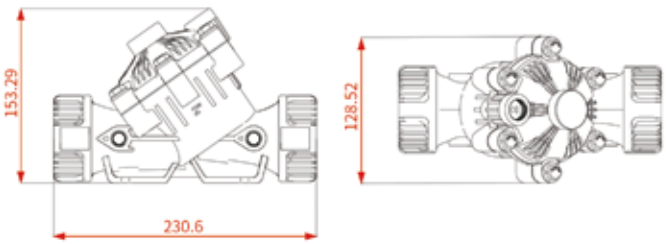
Type

Size	2-inch, DN50
Inlet Size	Female Thread, NPT/BSPT/ Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	60
	gal/min(US)	264
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



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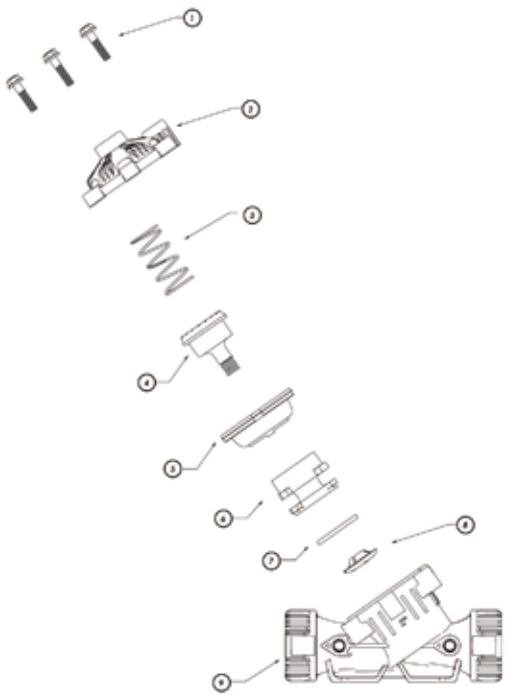
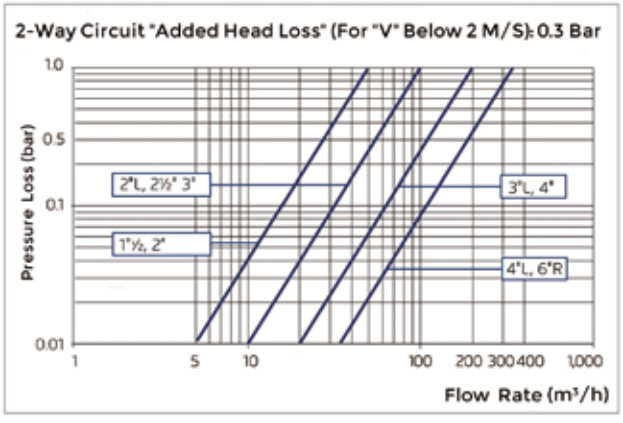


Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss

Flow Chart



#	Accessories	Material
1	Bolt	SUS304
2	Bonnet	Nylon PA66
3	Spring	SUS304
4	Diaphragm Support	Nylon PA66
5	Diaphragm	NR
6	Diaphragm Retainer	Nylon PA66
7	Plug Seal	NR
8	Support Nut	Nylon PA66
9	Valve Body	Nylon PA66

Y100 series Solenoid Valve

2.5 inch

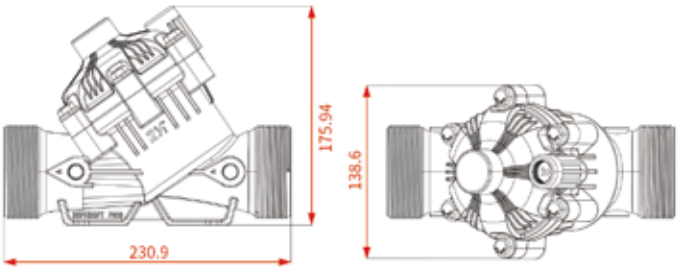
Type

Size	2.5-inch, DN65
Inlet Size	Female Thread, NPT/BSPT/ Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	65
	gal/min(US)	286
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



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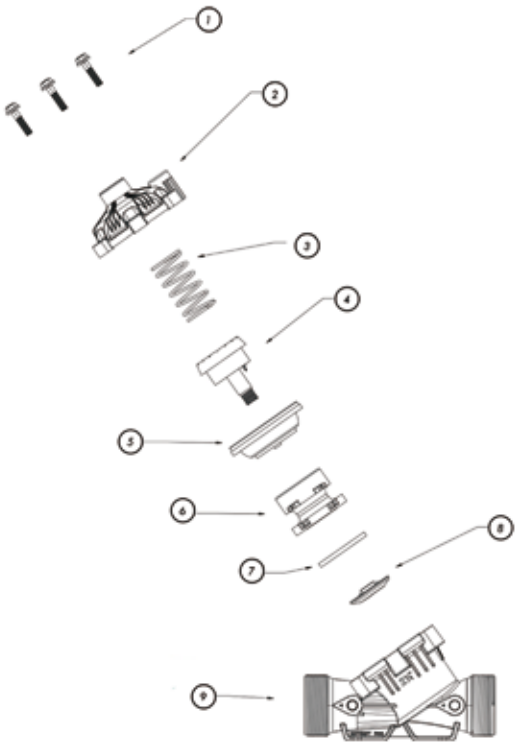
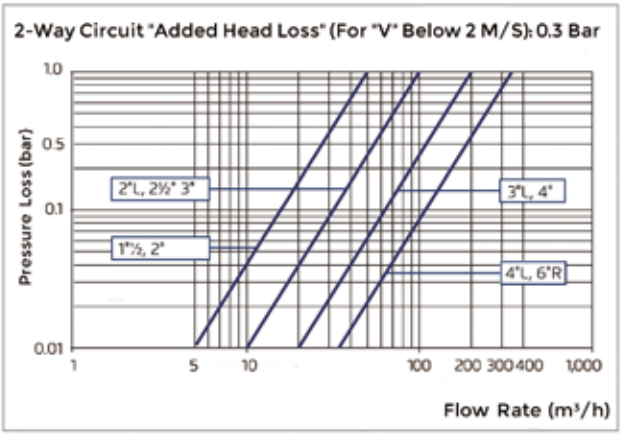


Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss

Flow Chart



#	Accessories	Material
1	Bolt	SUS304
2	Bonnet	Nylon PA66
3	Spring	SUS304
4	Diaphragm Support	Nylon PA66
5	Diaphragm	NR
6	Diaphragm Retainer	Nylon PA66
7	Plug Seal	NR
8	Threaded Cover	Nylon PA66
9	Valve Body	Nylon PA66

Y100 series Solenoid Valve

3 inch

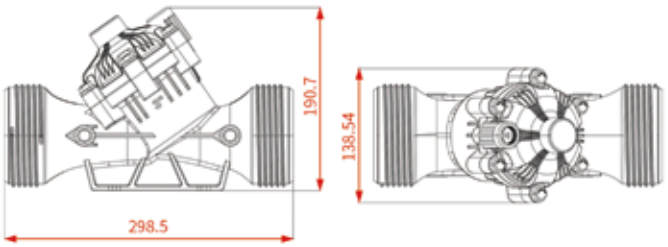
Type

Size	3-inch, DN80
Inlet Size	Female Thread, NPT/BSPT/ Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	70
	gal/min(US)	308
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



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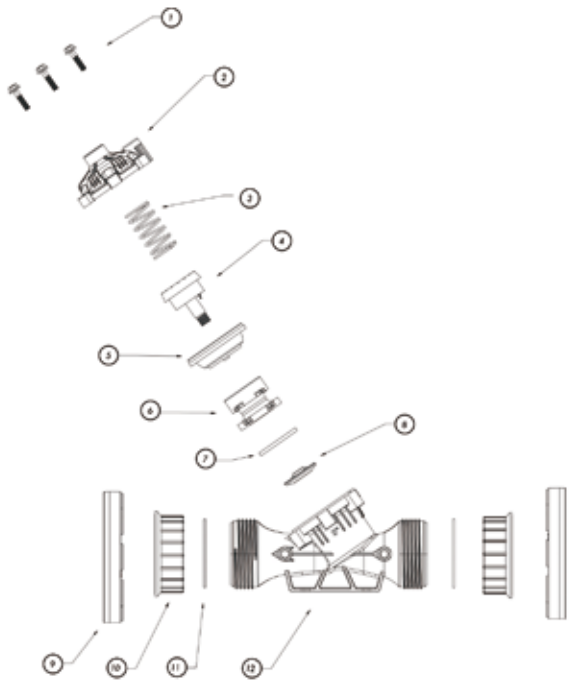
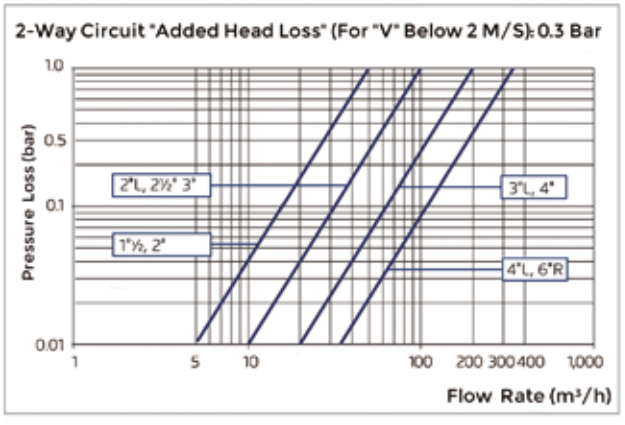


Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss

Flow Chart



#	Accessories	Material
1	Bolt	SUS304
2	Bonnet	Nylon PA66
3	Spring	SUS304
4	Diaphragm Support	Nylon PA66
5	Diaphragm	NR
6	Diaphragm Retainer	Nylon PA66
7	Plug Seal	NR
8	Threaded Cover	Nylon PA66
9	Flange	Nylon PA66
10	Flange Adaptor	Nylon PA66
11	O Ring-Flange	Nylon PA66
12	Valve Body	Nylon PA66

Y100 series Solenoid Valve

3.5 inch

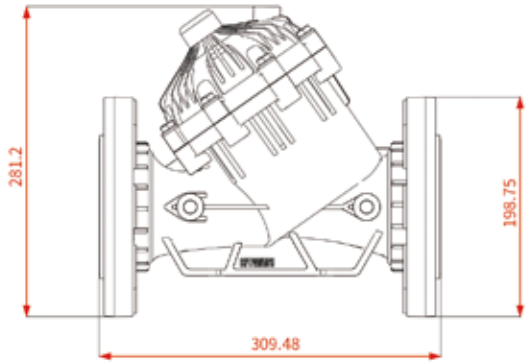
Type

Size	3-½-inch, DN80
Inlet Size	Female Thread, NPT/BSPT/ Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	100
	gal/min(US)	440
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
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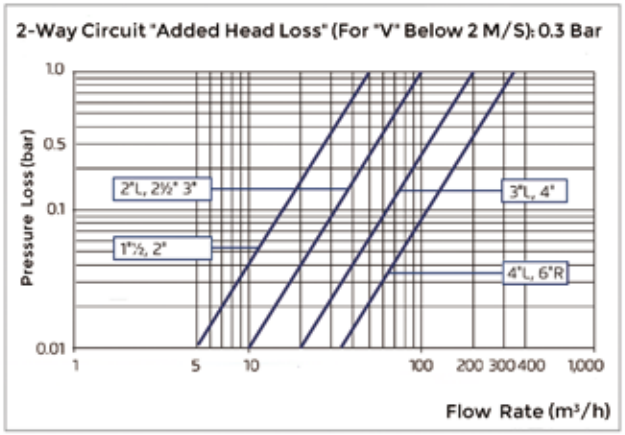
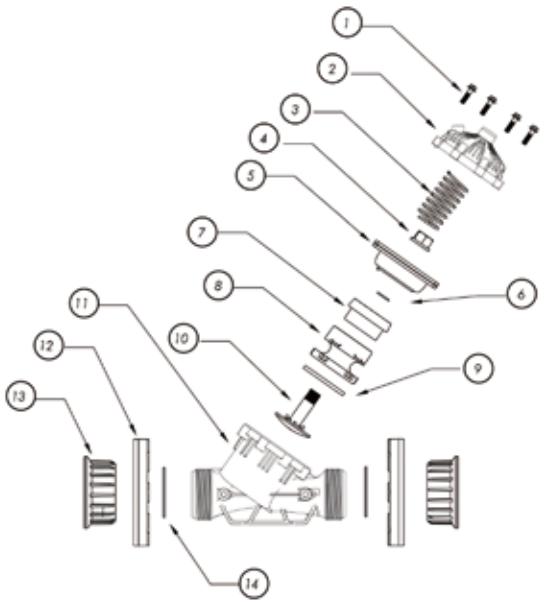
Head Loss

Flow Chart



Spare Parts



#	Accessories	Material
1	Bolt	SUS304
2	Bonnet	Nylon PA66
3	Spring	SUS304
4	Retainer Nut	Nylon PA66
5	Diaphragm	NR
6	O Ring-Diaphragm	NBR
7	Diaphragm Assembly	Nylon PA66
8	Diaphragm Retainer	Nylon PA66
9	Plug Seal	NR
10	Diaphragm Support	Nylon PA66
11	Valve Body	Nylon PA66
12	Flange	Nylon PA66
13	Flange Adaptor	Nylon PA66
14	O Ring-Flange	NBR

Y100 series Solenoid Valve

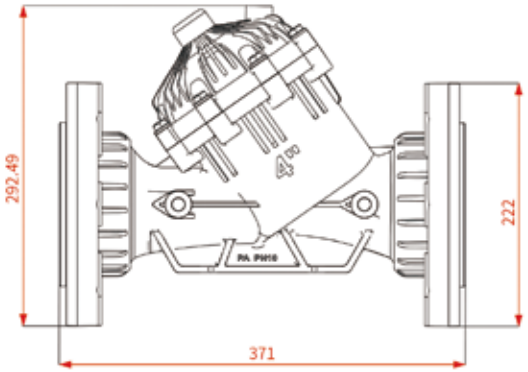
4 inch

Size	4-inch , DN100
Inlet Size	Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	100
	gal/min(US)	440
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)

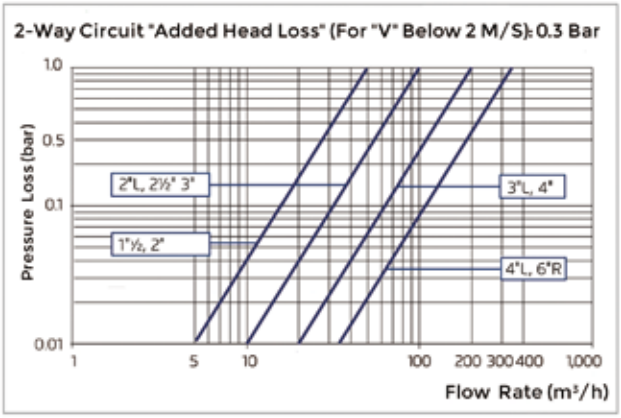


Typical Applications

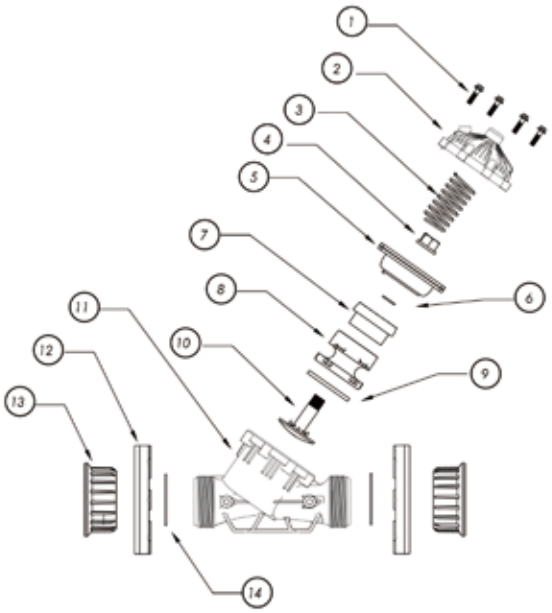
- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss

Flow Chart



Spare Parts



#	Accessories	Material
1	Bolt	SUS304
2	Bonnet	Nylon PA66
3	Spring	SUS304
4	Retainer Nut	Nylon PA66
5	Diaphragm	NR
6	O Ring-Diaphragm	NBR
7	Diaphragm Assembly	Nylon PA66
8	Diaphragm Retainer	Nylon PA66
9	Plug Seal	NR
10	Diaphragm Support	Nylon PA66
11	Valve Body	Nylon PA66
12	Flange	Nylon PA66
13	Flange Adaptor	Nylon PA66
14	O Ring-Flange	NBR

Y100 series Solenoid Valve

5 inch

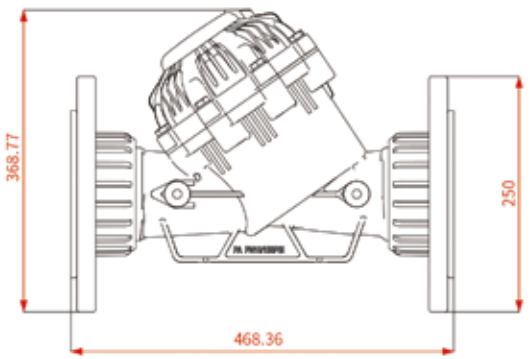
Type

Size	5-inch, DN125
Inlet Size	Flanged
Material	Nylon PA66

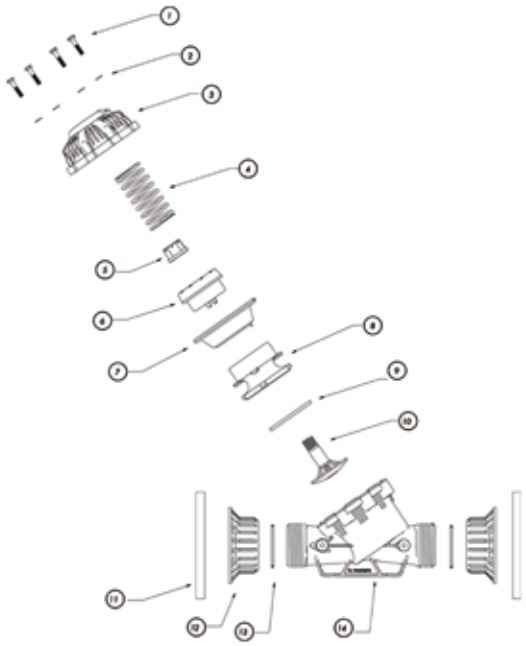
Optimal Performance

Max. Flow	m³/h	125
	gal/min(US)	550
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



Spare Parts



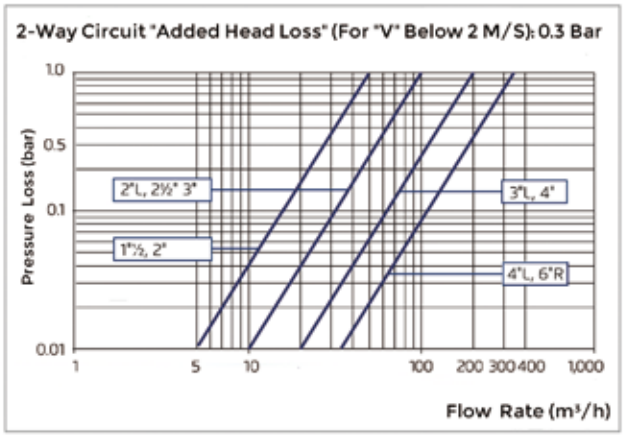
#	Accessories	Material
1	Bolt	SUS316
2	Bolt Washers	SUS316
3	Bonnet	Nylon PA66
4	Spring	SUS316
5	Retainer Nut	Nylon PA66
6	Diaphragm Assembly	Nylon PA66
7	Diaphragm	NR
8	Diaphragm Retainer	Nylon PA66
9	Plug Seal	NR
10	Diaphragm Support	Nylon PA66
11	Flange	Carbon Steel with Plastic Coating
12	Flange Adaptor	Nylon PA66
13	O Ring-Flange	NBR
14	Valve Body	Nylon PA66

Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss

Flow Chart



Y100 series Solenoid Valve

6 inch

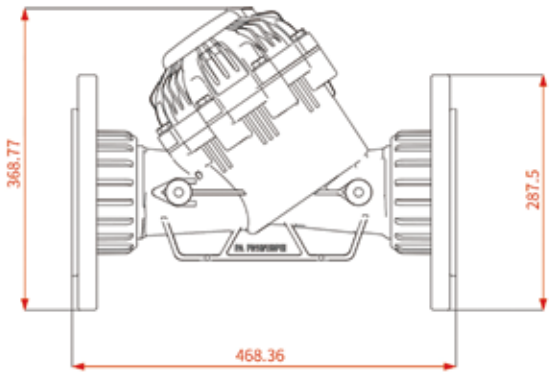
Type

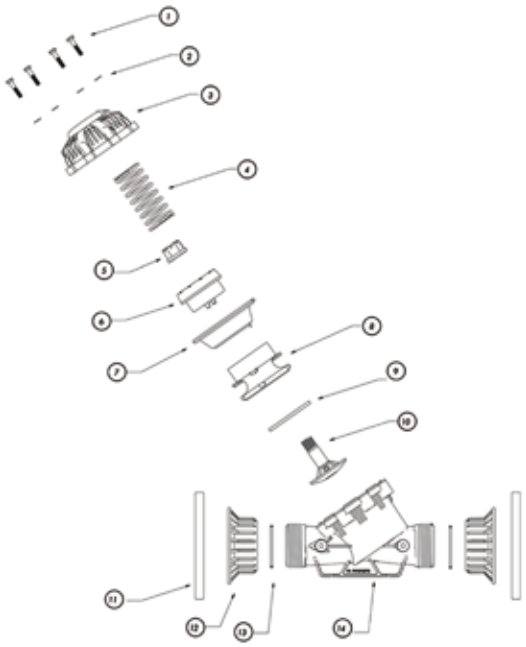
Size	6-inch, DN150
Inlet Size	Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	210
	gal/min(US)	924
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)





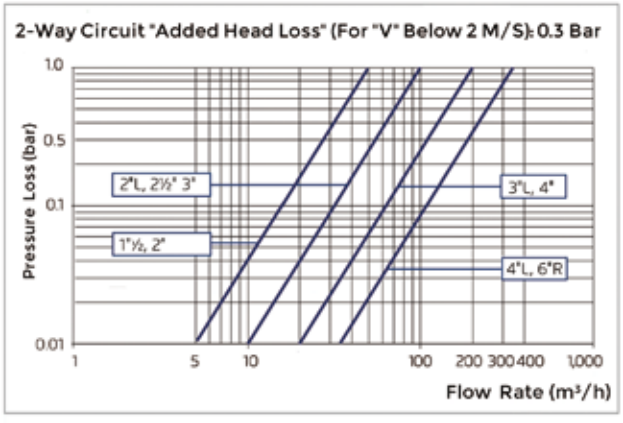
Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

#	Accessories	Material
1	Bolt	SUS316
2	Bolt Washers	SUS316
3	Bonnet	Nylon PA66
4	Spring	SUS304
5	Retainer Nut	Nylon PA66
6	Diaphragm Assembly	Nylon PA66
7	Diaphragm	NR
8	Diaphragm Retainer	Nylon PA66
9	Plug Seal	NR
10	Diaphragm Support	Nylon PA66
11	Flange	Carbon Steel with Plastic Coating
12	Flange Adaptor	Nylon PA66
13	O Ring-Flange	NBR
14	Valve Body	Nylon PA66

Head Loss

Flow Chart



T200series Solenoid Valve

1/2 inch

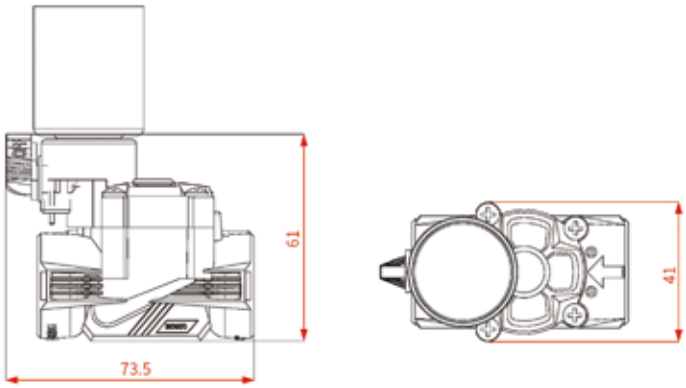
Type

Size	1/2-inch, DN15
Inlet Size	Female Thread, NPT/BSPT
Material	Nylon PA66

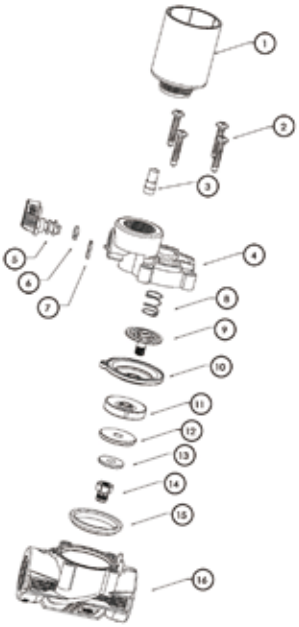
Optimal Performance

Max. Flow	m³/h	2.8
	gal/min(US)	12.57
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



Spare Parts

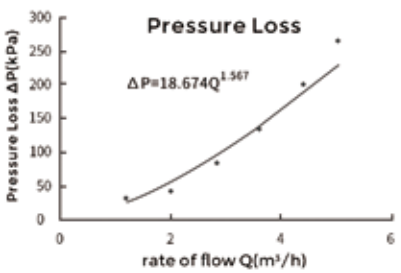


Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

#	Accessories	Material
1	Solenoid Actuator	
2	Screw	SUS304
3	Bonnet Filter Pin	POM
4	Bonnet	Nylon PA66
5	Bonnet Switch	POM
6	O Ring- Bonnet	NBR
7	Bonnet Assembly Pin	SUS304
8	Spring	SUS304
9	Diaphragm Support	Nylon PA66
10	Diaphragm	NR
11	Diaphragm Retainer	Nylon PA66
12	Plug Seal	NR
13	Plug Seal Retainer	Nylon PA66
14	Support Nut	Nylon PA66
15	Valve Body Inside Liner	Nylon PA66
16	Valve Body	Nylon PA66

Head Loss



	rate of flow (m³/h)	Pressure Loss kPa
Pressure Loss	1.20	32
	2.01	41
	2.85	83
	3.60	136
	4.39	205
	5.01	270

T200series Solenoid Valve

3/4 inch

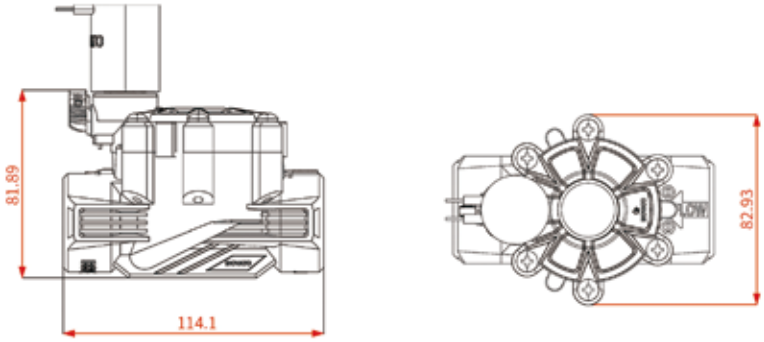
Type

Size	¾"-inch, DN20
Inlet Size	Female Thread, NPT/BSPT/Quick Connector
Material	Nylon PA66

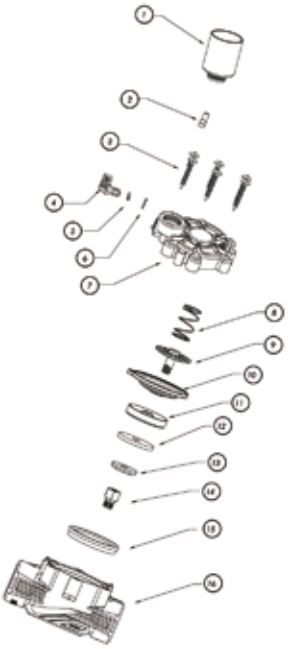
Optimal Performance

Max. Flow	m³/h	8.5
	gal/min(US)	38.15
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



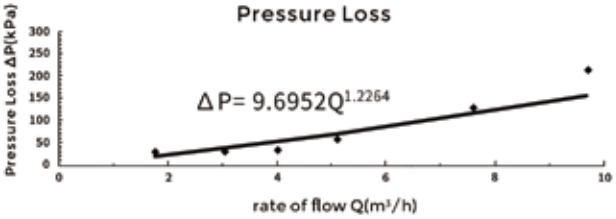
Spare Parts



Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss



	rate of flow (m³/h)	Pressure Loss kPa
Pressure Loss	1.77	30
	3.04	31
	4.01	34
	5.12	59
	7.62	130
	9.70	215

#	Accessories	Material
1	Solenoid Actuator	
2	Bonnet Filter Pin	POM
3	Screw	SUS304
4	Bonnet Switch	POM
5	O Ring- Bonnet	NBR
6	Bonnet Assembly Pin	SUS304
7	Bonnet	Nylon PA66
8	Spring	SUS304
9	Diaphragm Support	Nylon PA66
10	Diaphragm	NR
11	Diaphragm Retainer	Nylon PA66
12	Plug Seal	NR
13	Plug Seal Retainer	Nylon PA66
14	Support Nut	Nylon PA66
15	Valve Body Inside Liner	Nylon PA66
16	Valve Body	Nylon PA66

T200series Solenoid Valve

1 inch

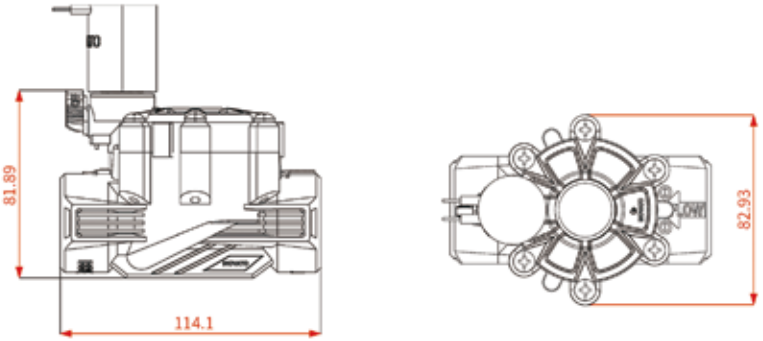
Type

Size	1-inch, DN25
Inlet Size	Female Thread, NPT/BSPT/Quick Connector
Material	Nylon PA66

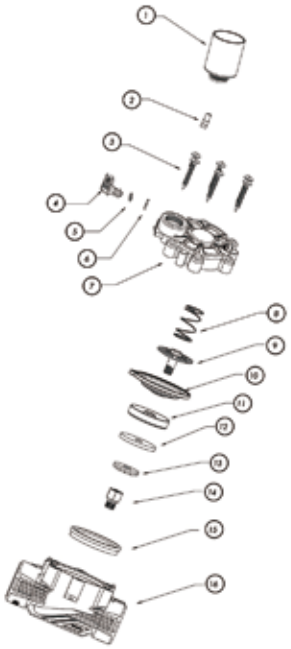
Optimal Performance

Max. Flow	m³/h	8.8
	gal/min(US)	39.5
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



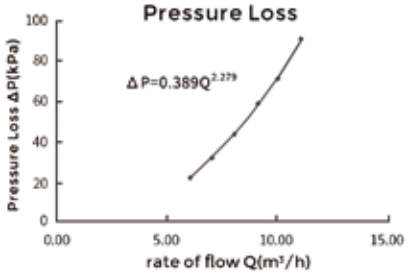
Spare Parts



Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss



	rate of flow (m³/h)	Pressure Loss kPa
Pressure Loss	6.00	23
	7.03	33
	8.00	45
	9.02	60
	10.00	72
	10.98	92

#	Accessories	Material
1	Solenoid Actuator	
2	Bonnet Filter Pin	POM
3	Screw	SUS304
4	Bonnet Switch	POM
5	O Ring- Bonnet	NBR
6	Bonnet Assembly Pin	SUS304
7	Bonnet	Nylon PA66
8	Spring	SUS304
9	Diaphragm Support	Nylon PA66
10	Diaphragm	NR
11	Diaphragm Retainer	Nylon PA66
12	Plug Seal	NR
13	Plug Seal Retainer	Nylon PA66
14	Support Nut	Nylon PA66
15	Valve Body Inside Liner	Nylon PA66
16	Valve Body	Nylon PA66

T200series Solenoid Valve

1.5 inch

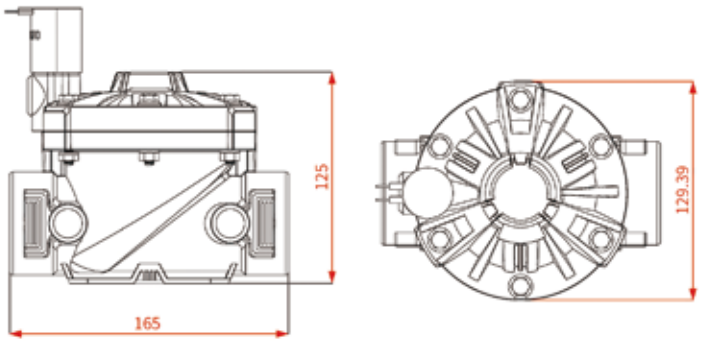
Type

Size	1-½-inch, DN40
Inlet Size	Female Thread, NPT/BSPT/ Flanged
Material	Nylon PA66

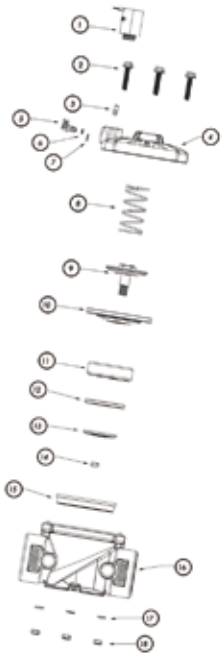
Optimal Performance

Max. Flow	m³/h	20
	gal/min(US)	89.76
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)



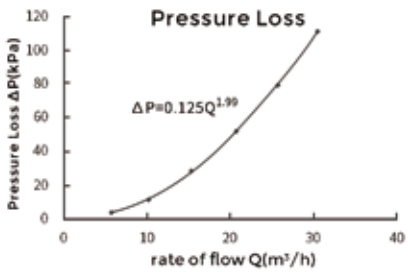
Spare Parts



Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss



	rate of flow (m³/h)	Pressure Loss kPa
Pressure Loss	5.66	4
	10.10	12
	15.32	29
	20.68	53
	25.66	79
	30.49	112

#	Accessories	Material
1	Solenoid Actuator	
2	Bolt	SUS304
3	Bonnet Filter Pin	POM
4	Bonnet	Nylon PA66
5	Bonnet Switch	POM
6	O Ring- Bonnet	NBR
7	Bonnet Assembly Pin	SUS304
8	Spring	SUS304
9	Diaphragm Support	Nylon PA66
10	Diaphragm	NR
11	Diaphragm Retainer	Nylon PA66
12	Plug Seal	NR
13	Plug Seal Retainer	Nylon PA66
14	Support Nut	Nylon PA66
15	Valve Body Inside Liner	Nylon PA66
16	Valve Body	Nylon PA66
17	Nuts Washers	SUS304
18	Nuts	Copper

T200series Solenoid Valve

2 inch

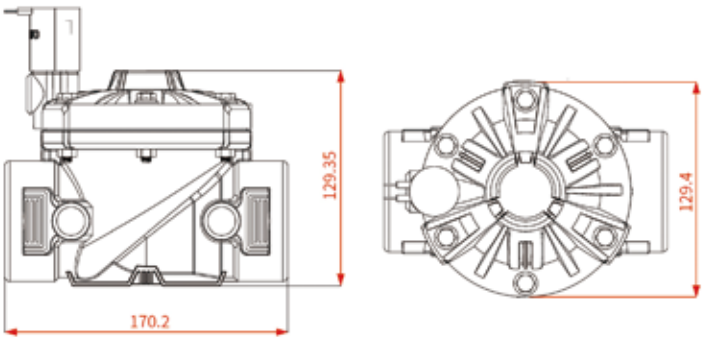
Type

Size	2-inch, DN50
Inlet Size	Female Thread, NPT/BSPT/Flanged
Material	Nylon PA66

Optimal Performance

Max. Flow	m³/h	33
	gal/min(US)	148
Max. Pre	MPa	1.0
	PSI	145
Min. Pre	MPa	0.069
	PSI	10
Max. Temp	℃	60
	°F	140

Technical Specifications (mm)

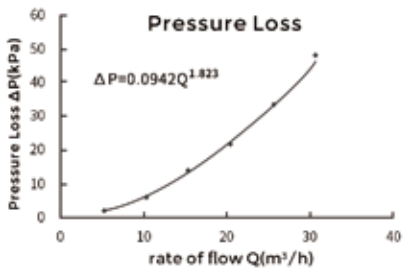


Spare Parts

Typical Applications

- Irrigation System
- Garden Irrigation
- Agriculture
- Landscape Irrigation
- Greenhouses Irrigation
- Sprinkling Irrigation System
- Water Filtration System
- Outdoor And Public Sewage Systems
- Underground Irrigation System

Head Loss



	rate of flow (m³/h)	Pressure Loss kPa
Pressure Loss	5.22	2
	10.24	6
	15.12	14
	20.29	22
	25.37	34
	30.29	49

#	Accessories	Material
1	Solenoid Actuator	
2	Bolt	SUS304
3	Bonnet Filter Pin	POM
4	Bonnet	Nylon PA66
5	Bonnet Switch	POM
6	O Ring- Bonnet	NBR
7	Bonnet Assembly Pin	SUS304
8	Spring	SUS304
9	Diaphragm Support	Nylon PA66
10	Diaphragm	NR
11	Diaphragm Retainer	Nylon PA66
12	Plug Seal	NR
13	Plug Seal Retainer	Nylon PA66
14	Support Nut	Nylon PA66
15	Valve Body Inside Liner	Nylon PA66
16	Valve Body	Nylon PA66
17	Nuts Washers	SUS304
18	Nuts	Copper

Solenoid Valve Pilot Valve

Pressure Regulating Pilot Valve

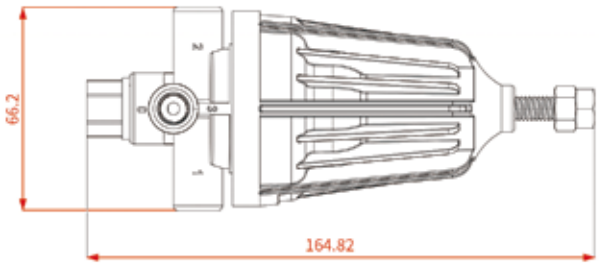
Functions

The direct multifunctional tee pilot valve is driven by a pressure sensitive diaphragm, keeps the balance between Hydraulic pressure and the setting spring force.

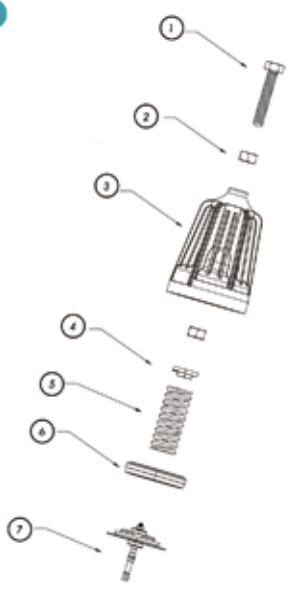
It will guide the flow between different ports when detected different pressure rate:

- ★If the detecting pressure was higher than the setting pressure, the valve would guide the flow from no.0 port to no.3 port.
- ★If the detecting pressure was equal to the setting pressure, the valve would obstructed all the way.
- ★If the detecting pressure was lower than the setting pressure, the valve would guide the flow from no.3 port to no.2 port.
- ★ The related pressure is monitored by no.1 port continuously.

Technical Specifications (mm)



Spare Parts



Typical Application

- Pressure reducing valve (tee control loop), the valve connecting port caliber from 1-1/2-inches to 6-inches.
- Pressure sustaining valve (tee control loop), the valve connecting port caliber from 1-1/2-inches to 6-inches.
- Adjustable tee hydromantic interrupter (normally on/off).
- Automatically adjustable controller switch, the valve connecting port caliber from 1-1/2-inches to 4-inches.

Technical Data

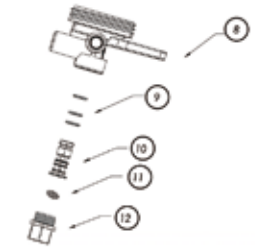
Recommended Pressure Range	10MPa	145PSI
Temperature Rating	water temperature reaches 50°C	122°F
Flow		
From No.0 Port to No.3 Port	kv	Cv
	0.13m³/h@1MPaΔP	0.15GPM@1psiΔP
From No.3 Port to No.2 Port	kv	Cv
	0.08m³/h@1MPaΔP	0.09GPM@1psiΔP
Size	1/8-inch, Female Thread, NPT	

Operating Specifications/ Adjustment Range

Spring	Pressure	
	MPa	PSI
Normal	0.08~0.65	11~95
White	0.05~0.30	7~40

Connecting Port

No.0	The port connects the inlet water inlet of pressure reducing valve or the exhaust vent of pressure sustaining valve.
No.3	The port always connects the valve controller between diaphragm and bonnet.
No.2	The port connects the exhaust vent of pressure reducing valve or the inlet water inlet of pressure sustaining valve.
No.1	The port always connects the outlet water outlet for pressure measurement.



#	Accessories	Material
1	Adjustment Screw	SUS304
2	Nuts	SUS304
3	Bonnet-Pilot Valve	Nylon PA66
4	Spring Seat	Nylon PA66
5	Spring	SUS304
6	Diaphragm Lower Platen	Nylon PA66
7	Internal Components	
8	Valve Seat	Nylon PA66
9	O Ring-Water Separator	NBR
10	Seat-Water Separator	POM
11	O Ring-Nuts	NBR
12	Nuts-Valve Seat	Nylon PA66

SOLENOID VALVE ACCESSORIES

ACCESSORIES

	Product number	Product introduction	
	Y-FJ-01-18	Coupling,1/8",BSPT	
	Y-FJ-02-18	Elbow,1/8",BSPT	
	Y-FJ-02-14	Elbow,1/4",NPT	
	Y-FJ-03-14	Plug,1/4",NPT	
	Y-FJ-04-18	Reducing tee,1/8",BSPT	
	Y-FJ-05-18	Cap,1/8",BSPT	
	Y-FJ-06-18	Copper cross	
	Y-FJ-06-14	Copper cross	
	Y-FJ-07-14	Pressure tapping,1/4",NPT	
	Y-FJ-08	Tape	
	Y-FJ-09-L59	Strainer,1/4",NPT,L59	

SOLENOID VALVE ACCESSORIES

ACCESSORIES

	Product number	Product introduction	
	Y-FJ-09-L41	Strainer,1/4",NPT,L41	
	Y-FJ-10-DN80	Flange，3"	
	Y-FJ-10-DN100	Flange，4"	
	Y-FJ-10-DN125	Flange，5"	
	Y-FJ-10-DN150	Flange，6"	
	Y-FJ-11	Pressure Reduce Pilot Valve	
	Y-FJ-12	Clamp connector,3"	
	Y-FJ-12-02	Clamp connector,4"	
	Y-FJ-13	PA,5*8	
	Y-FJ-14	Pressure gauge	
	Y-FJ-15	Pressure gauge probe	

Solenoid Actuator

The solenoid actuator is the key part of valve controller and the important device to connects the valve and electronic control equipment. The solnoid actuator is compatible with all major controller, can achieve a variety of functions. The standard solenoid actuator is produced by INOVATO owned solenoid actuator factory.

Feature:

- Normally open or closed position
- Reducing tee equip manual reset: turn on, off and auto
- Constant Voltage: 12VDC, 24VDC, 24VAC
- Pulse Voltage: 6-20V, 9-40V
- Protection Class: IP-68

2W electrical parameter & max cable length:

Solenoid valve type	Cable color	Watt	Amp		Coil resistance
			Surge current	Holding current	
2W-24VAC	red/red	1.7	0.25	0.125	37.5
2W-24VDC	black/black	3.6	0.18	0.18	156
2W-12VDC	blue/blue	4.0	0.33	0.33	36
2W-9VDC	red/blue	4.3	0.33	0.33	36
Solenoid valve type	Cable color	Coil inductance	Pulse width		Coil resistance
2W-9-24VDC Pulse	red/blac	12mH	20-500mSec		6

3W electrical parameter & max cable length:

Solenoid valve type	Cable color	Watt	Amp		Coil resistance
			Surge current	Holding current	
3W-24VAC	red/red	2.2	0.13	0.13	37.5
3W-24VDC	black/black	4.3	0.12	0.12	137
3W-12VDC	blue/blue	4.3	0.28	0.28	34
3W-9VDC	red/blue	4.3	0.47	0.47	19
Solenoid valve type	Cable color	Coil inductance	Pulse width		Coil resistance
3W-9-24VDC Pulse	red/black	12mH	20-500mSec		6

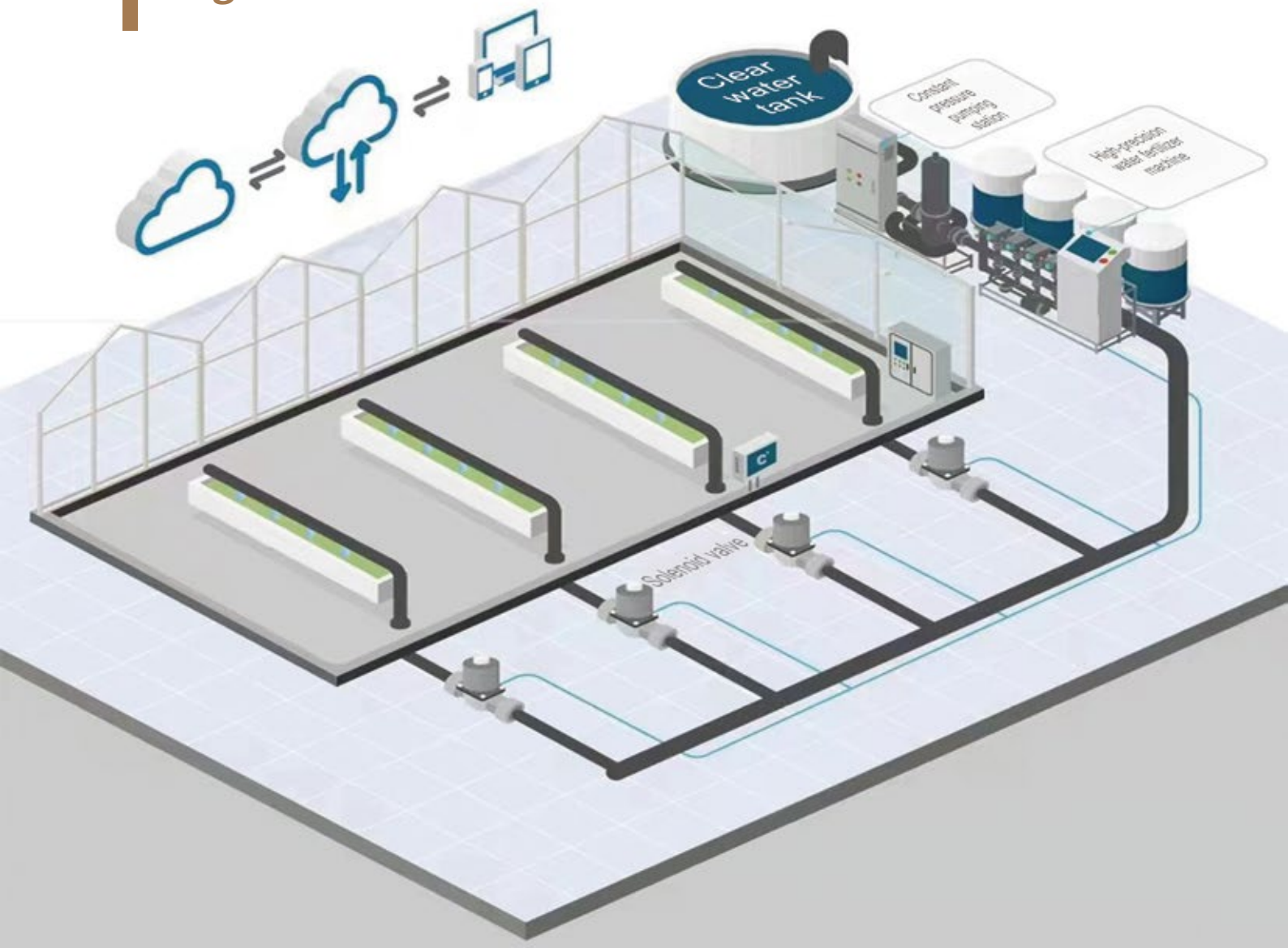
3W coil 3W-24VAC/24VDC

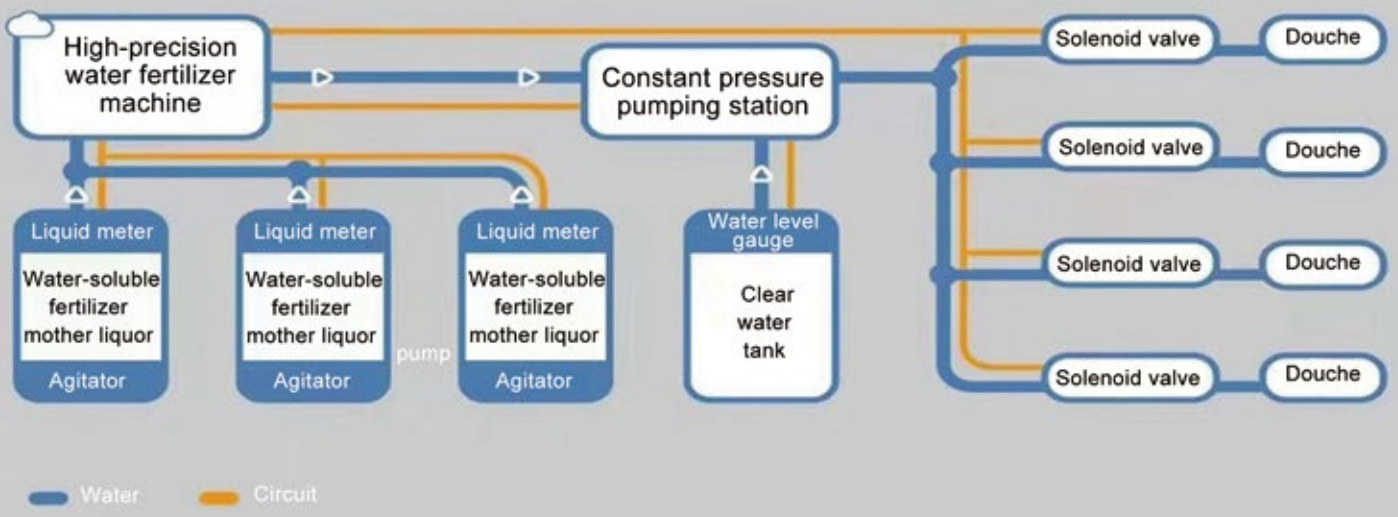
Product Identification	8DS
Port Thread	1/8" BSPT
Pressure	0.5-10 Bar
Material	Nylon reinforced
Sealed Material	NBR
Fluid TEMP	⩽60°C
Voltage Range	24VAC/24VDC
In Rush Current	90mA
Holding Current	75mA

3W coil 3W-12-40VDC

Product Identification	9DS
Port Thread	1/8" DN6
Pressure	0.5-10 Bar
Material	Nylon reinforced
Sealed Material	NBR
Fluid TEMP	⩽60°C
Voltage Range	12-24 DC
Pulse Width	⩾80 mSec
Capacitance Required	2200-4700μF

Irrigation Schemes





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